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OM nucleic - nucleic search, using sw model

Run on: August 26, 2005, 12:31:55 ; Search time 2.81314 Seconds  
(without alignments)  
4.206 Million cell updates/sec

Title: US-09-598-982C-8  
771  
Perfect score: 1 gggccctcgaagaaagaat.....cgtgaagcggccgctcgt 771  
Sequence: 1 gggccctcgaagaaagaat.....cgtgaagcggccgctcgt 771

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 0.5

Searched: 10 segs, 7674 residues

Total number of hits satisfying chosen parameters: 20

Minimum DB seq length: 0  
Maximum DB seq length: inf

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing First 200 summaries

Database : US09598982C\_rev.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	771	100.0	771	1	US-09-598-982C-8
2	767.8	99.6	771	1	US-09-598-982C-22
3	766.2	99.4	771	1	US-09-598-982C-38
4	764.6	99.2	771	1	US-09-598-982C-20
5	763	99.0	771	1	US-09-598-982C-36
6	761.4	98.8	771	1	US-09-598-982C-24
8	759.8	98.5	771	1	US-09-598-982C-26
9	759.8	98.5	771	1	US-09-598-982C-40
10	735	95.3	735	1	US-09-598-982C-10
11	28.2	3.7	771	1	US-09-598-982C-8
12	28.2	3.7	771	1	US-09-598-982C-20
13	28.2	3.7	771	1	US-09-598-982C-22
14	28.2	3.7	771	1	US-09-598-982C-24
15	28.2	3.7	771	1	US-09-598-982C-26
16	28.2	3.7	771	1	US-09-598-982C-36
17	28.2	3.7	771	1	US-09-598-982C-38
18	28.2	3.7	771	1	US-09-598-982C-40
19	28.2	3.7	771	1	US-09-598-982C-42
20	27.2	3.5	735	1	US-09-598-982C-10

ALIGNMENTS

RESULT 1  
US-09-598-982C-8  
; Sequence 8, Application US/09598982C  
; GENERAL INFORMATION:  
; APPLICANT: Niles, Andrew  
; APPLICANT: Maffitt, Mark  
; APPLICANT: Haak-Frendscho, Mary  
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSASES, ACTIVE SITE MUTANTS THEREOF.

TITLE OF INVENTION: AND METHODS OF MAKING SAME  
FILE REFERENCE: 34506.104  
CURRENT APPLICATION NUMBER: US/09/598,982C  
CURRENT FILING DATE: 2000-06-21  
PRIOR APPLICATION NUMBER: 09/079,970  
PRIOR FILING DATE: 1998-04-15  
NUMBER OF SEQ ID NOS: 52  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 8  
LENGTH: 771  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURES:  
NAME/KEY: CDS  
LOCATION: (7)..(753)  
US-09-598-982C-8

Query Match 100.0%; Score 771; DB 1; Length 771;  
Best Local Similarity 100.0%; Pred. No. 0.036;  
Matches 771; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY	1	GGGCCCCCTCGAAGAAAGATGCTGGGGGTCAGAGAGCCCCAGAGCAAGTGGCCCTTG	60
DB	1	GGGCCCCCTCGAAGAAAGATGCTGGGGGTCAGAGAGCCCCAGAGCAAGTGGCCCTTG	60
OY	61	CAGGTGAGCCCTGAGAGTCCAGCCGCTATCTGATGACCTTCCGGGGGCTCCCTCATC	120
DB	61	CAGGTGAGCCCTGAGAGTCCAGCCGCTATCTGATGACCTTCCGGGGGCTCCCTCATC	120
OY	121	CACCCCGAGTGGGTCTGACCCGACCCGCTGCGTGGAGCCGACGTCAGAGATCTGGCC	180
DB	121	CACCCCGAGTGGGTCTGACCCGACCCGCTGCGTGGAGCCGACGTCAGAGATCTGGCC	180
OY	181	GCCCTCAGGGTGCACCTGCGGAGCAGCACCCTTACTACAGAGACGCTGCGCGGATC	240
DB	181	GCCCTCAGGGTGCACCTGCGGAGCAGCACCCTTACTACAGAGACGCTGCGCGGATC	240
OY	241	AGCAGATTCATTCGTCACCCGACGCTTCTACACCGCCGAGATCGGAGGAGCATGCGCCTG	300
DB	241	AGCAGATTCATTCGTCACCCGACGCTTCTACACCGCCGAGATCGGAGGAGCATGCGCCTG	300
OY	301	CTGGAGCTGAGAGAGCCGGTGAAGTCTCCAGCCAGCTCCACAGCTCACCCCTCCCT	360
DB	301	CTGGAGCTGAGAGAGCCGGTGAAGTCTCCAGCCAGCTCCACAGCTCACCCCTCCCT	360
OY	361	GCTTCAGAGACTTCCCTCCCGGGAGTCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	420
DB	361	GCTTCAGAGACTTCCCTCCCGGGAGTCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	420
OY	421	AATGATGAGGCGCCCTCCGACCGCCATTTCTCTGAAAGAGAGTCCCAATATGGA	480
DB	421	AATGATGAGGCGCCCTCCGACCGCCATTTCTCTGAAAGAGAGTCCCAATATGGA	480
OY	481	AACCAATTTGTGACGGAAATATACCACTTGGCCCTTACACGGGAGAGAGTCCGCAATC	540
DB	481	AACCAATTTGTGACGGAAATATACCACTTGGCCCTTACACGGGAGAGAGTCCGCAATC	540
OY	541	GTCGGTGAAGCATGCTGTGTGTCGGGAAACACCCGAGAGGACTATGTCAGGGGACTCC	600
DB	541	GTCGGTGAAGCATGCTGTGTGTCGGGAAACACCCGAGAGGACTATGTCAGGGGACTCC	600
OY	601	GGAGGGGCCCCGCTGTGTGTAAGTGGGACCTGGGTCAGGGGGGGGCTGTCAGGCTGG	660
DB	601	GGAGGGGCCCCGCTGTGTGTAAGTGGGACCTGGGTCAGGGGGGGGCTGTCAGGCTGG	660
OY	661	GGCGAGGGCTGTGTCAGCCAGCCCAACCGGCTGGCACTACACCCTGTCACTACTACTTG	720
DB	661	GGCGAGGGCTGTGTCAGCCAGCCCAACCGGCTGGCACTACACCCTGTCACTACTACTTG	720
OY	721	GACTGATCCACCACTATATGTCCTCCCAAAAAGCCGGAAGCGGCGCCCTGCTGT	771
DB	721	GACTGATCCACCACTATATGTCCTCCCAAAAAGCCGGAAGCGGCGCCCTGCTGT	771

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RESULT 2
US-09-598-982C-22
; Sequence 22, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 22
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
US-09-598-982C-22

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Query Match          99.6%; Score 767.8; DB 1; Length 771;
Best Local Similarity 99.7%; Pred. No. 0.038;
Matches 769; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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QY 1 GGGCCCTCGAGAAAAGAAATCGTGGGGGTGAGGAGGCCCCCGAGGCAAGTGGCCCTGG 60
DB 1 GGGCCCTCGAGAAAAGAAATCGTGGGGGTGAGGAGGCCCCCGAGGCAAGTGGCCCTGG 60
QY 61 CAGGTGAGGCTGAGAGTCCACCGGCGCATCTGGATGCACTTCTGGGGGGCTCCCTCATC 120
DB 61 CAGGTGAGGCTGAGAGTCCACCGGCGCATCTGGATGCACTTCTGGGGGGCTCCCTCATC 120
QY 121 CACCCCAAGTGGTGTGACCGGAGCGCACTGCGTGGAGACCGGACCGTCAAGANTGGCC 180
DB 121 CACCCCAAGTGGTGTGACCGGAGCGCACTGCGTGGAGACCGGACCGTCAAGANTGGCC 180
QY 181 GCCCTCAGGGTGAATCTGGGGAGGAGCACTTACTTACAGAGACCGAGTCTGGCCGATC 240
DB 181 GCCCTCAGGGTGAATCTGGGGAGGAGCACTTACTTACAGAGACCGAGTCTGGCCGATC 240
QY 241 AGCAGGATCATGTTGACCCAGCTTCTACCGCCCAAGTGGAGCGGCAATCGCCCTG 300
DB 241 AGCAGGATCATGTTGACCCAGCTTCTACCGCCCAAGTGGAGCGGCAATCGCCCTG 300
QY 301 CTGAGACTGAGAGGACCGGTGAAGTCTCCAGCCAGTCCACACCGGTCAACCTGCCCCCT 360
DB 301 CTGAGACTGAGAGGACCGGTGAAGTCTCCAGCCAGTCCACACCGGTCAACCTGCCCCCT 360
QY 361 GCCTCAGAGACCTTCCCCGGGAGTCCGTGTGGGTCACTGGCTGGGGGCGATGAGAC 420
DB 361 GCCTCAGAGACCTTCCCCGGGAGTCCGTGTGGGTCACTGGCTGGGGGCGATGAGAC 420
QY 421 AATGATGAGAGGCTCCACCGCATTTCTCTGAACAGAGTGAAGGTCCCAATATGAAA 480
DB 421 AATGATGAGAGGCTCCACCGCATTTCTCTGAACAGAGTGAAGGTCCCAATATGAAA 480
QY 481 AACCAATTTGTGACGCAAAAATACACTTTGGGCGCTTACACCGGAGAACAGACCGGCATC 540
DB 481 AACCAATTTGTGACGCAAAAATACACTTTGGGCGCTTACACCGGAGAACAGACCGGCATC 540
QY 541 GTCCGAGAGCAATGCTGTGTGCGGGGAAACCCGGAGGAGTCAATGCCAGGGCCATCC 600
DB 541 GTCCGAGAGCAATGCTGTGTGCGGGGAAACCCGGAGGAGTCAATGCCAGGGCCATCC 600
QY 601 GAGAGGCGCCCTGAGTGTGCAAGGTAATGAGCACTTGGCTGAGGCGGGCGTGGTCACTGG 660
DB 601 GAGAGGCGCCCTGAGTGTGCAAGGTAATGAGCACTTGGCTGAGGCGGGCGTGGTCACTGG 660

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RESULT 3
US-09-598-982C-38
; Sequence 38, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 38
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
US-09-598-982C-38

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```

Query Match          99.4%; Score 766.2; DB 1; Length 771;
Best Local Similarity 99.6%; Pred. No. 0.038;
Matches 768; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

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QY 1 GGGCCCTCGAGAAAAGAAATCGTGGGGGTGAGGAGGCCCCCGAGGCAAGTGGCCCTGG 60
DB 1 GGGCCCTCGAGAAAAGAAATCGTGGGGGTGAGGAGGCCCCCGAGGCAAGTGGCCCTGG 60
QY 61 CAGGTGAGGCTGAGAGTCCACCGGCGCATCTGGATGCACTTCTGGGGGGCTCCCTCATC 120
DB 61 CAGGTGAGGCTGAGAGTCCACCGGCGCATCTGGATGCACTTCTGGGGGGCTCCCTCATC 120
QY 121 CACCCCAAGTGGTGTGACCGGAGCGCACTGCGTGGAGACCGGACCGTCAAGANTGGCC 180
DB 121 CACCCCAAGTGGTGTGACCGGAGCGCACTGCGTGGAGACCGGACCGTCAAGANTGGCC 180
QY 181 GCCCTCAGGGTGAATCTGGGGAGGAGCACTTACTTACAGAGACCGAGTCTGGCCGATC 240
DB 181 GCCCTCAGGGTGAATCTGGGGAGGAGCACTTACTTACAGAGACCGAGTCTGGCCGATC 240
QY 241 AGCAGGATCATGTTGACCCAGCTTCTACCGCCCAAGTGGAGCGGCAATCGCCCTG 300
DB 241 AGCAGGATCATGTTGACCCAGCTTCTACCGCCCAAGTGGAGCGGCAATCGCCCTG 300
QY 301 CTGAGACTGAGAGGACCGGTGAAGTCTCCAGCCAGTCCACACCGGTCAACCTGCCCCCT 360
DB 301 CTGAGACTGAGAGGACCGGTGAAGTCTCCAGCCAGTCCACACCGGTCAACCTGCCCCCT 360
QY 361 GCCTCAGAGACCTTCCCCGGGAGTCCGTGTGGGTCACTGGCTGGGGGCGATGAGAC 420
DB 361 GCCTCAGAGACCTTCCCCGGGAGTCCGTGTGGGTCACTGGCTGGGGGCGATGAGAC 420
QY 421 AATGATGAGAGGCTCCACCGCATTTCTCTGAACAGAGTGAAGGTCCCAATATGAAA 480
DB 421 AATGATGAGAGGCTCCACCGCATTTCTCTGAACAGAGTGAAGGTCCCAATATGAAA 480
QY 481 AACCAATTTGTGACGCAAAAATACACTTTGGGCGCTTACACCGGAGAACAGACCGGCATC 540
DB 481 AACCAATTTGTGACGCAAAAATACACTTTGGGCGCTTACACCGGAGAACAGACCGGCATC 540

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Db 481 AACCAATTTGGAGGCAAAATPACCACTTGGCGCTTACAGGGAGAGGAGCATGCCTGGCATC 540
Qy 541 GTCCGTGACGACATGCTGTGTGCGGGGAAACCCGGAGGACCTCATGCCAGGGGCATCC 600
Db 541 GTCCGTGACGACATGCTGTGTGCGGGGAAACCCGGAGGACCTCATGCCAGGGGCATCC 600
Qy 601 GGAAGGGCCCGGTGTGAAAGGTGAATGGCACTGGCCCTGCAAGGGGGGTGTGACGTGG 660
Db 601 GGAAGGGCCCGGTGTGAAAGGTGAATGGCACTGGCCCTGCAAGGGGGGTGTGACGTGG 660
Qy 661 GGCGAGGCTGTGTGCGGCAAGCGCGCTGTGCATCACCCTGTGTGACTACTACTTGG 720
Db 661 GGCGAGGCTGTGTGCGGCAAGCGCGCTGTGCATCACCCTGTGTGACTACTACTTGG 720
Qy 721 GACTGAAATCCACCACTATGTGTCCCAAAAAAGCCGTGAAGGCGCGGCTGCT 771
Db 721 GACTGAAATCCACCACTATGTGTCCCAAAAAAGCCGTGAAGGCGCGGCTGCT 771

```

RESULT 4

```

US-09-598-982C-20
; Sequence 20, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Maffelt, Mark
; APPLICANT: Haak-Frendescho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASIS, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 20
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
US-09-598-982C-20

```

```

Query Match 99.2%; Score 764.6; DB 1; Length 771;
Best Local Similarity 99.5%; Pred. No. 0.039;
Matches 767; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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Qy 1 GGGCCCTCGAGAAAAGAAATGTCGGGGGTCAAGAGCCCGCCAGAGCAAGTGGCCCTGG 60
Db 1 GGGCCCTCGAGAAAAGAAATGTCGGGGGTCAAGAGCCCGCCAGAGCAAGTGGCCCTGG 60
Qy 61 CAGGTGAAGCTCAGAGTTCACCGGCCAATCTGAATGCACTTGTGGGGGGCTCCCTCATC 120
Db 61 CAGGTGAAGCTCAGAGTTCACCGGCCAATCTGAATGCACTTGTGGGGGGCTCCCTCATC 120
Qy 121 CACCCCGCAGTGGGTCAGTCCGCGCGAGCGCACTGCCTGTGAGCAAGATCTGGCC 180
Db 121 CACCCCGCAGTGGGTCAGTCCGCGCGAGCGCACTGCCTGTGAGCAAGATCTGGCC 180
Qy 181 GGCCTCAGAGGGTGAAGTGTGGGAGGAGCCTCTCACTCAAGAGCAAGTGTGGCGGTG 240
Db 181 GGCCTCAGAGGGTGAAGTGTGGGAGGAGCCTCTCACTCAAGAGCAAGTGTGGCGGTG 240
Qy 241 AGCAGAGATCATGTCAGCAGTTCATCAACCGCGCAATGGAGGCGGACATCGCCCTG 300
Db 241 AGCAGAGATCATGTCAGCAGTTCATCAACCGCGCAATGGAGGCGGACATCGCCCTG 300
Qy 301 CTGAGACTGAGAGAGCGCGGTGAAGTCTTCAGCCACCTGTCACAGGATCCTTGCCCT 360
Db 301 CTGAGACTGAGAGAGCGCGGTGAAGTCTTCAGCCACCTGTCACAGGATCCTTGCCCT 360
Qy 361 GCCTCAGAGAGACTTCCCCCGGGAGATCGGTGTGACTGTGCGGGCAAGATGTGAC 420

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Db 361 GCCTCAGAGAGACTTCCCCCGGGAGATCGGTGTGACTGTGCGGGCAAGATGTGAC 420
Qy 421 AATGATGAGCGCTCCACCGCCATTTCCTGTGAAGCAGGTGAAGGTCCCATTAAATGAAA 480
Db 421 AATGATGAGCGCTCCACCGCCATTTCCTGTGAAGCAGGTGAAGGTCCCATTAAATGAAA 480
Qy 481 AACCAATTTGGAGGCAAAATPACCACTTGGCGCTTACAGGGAGAGGAGCATGCCTGGCATC 540
Db 481 AACCAATTTGGAGGCAAAATPACCACTTGGCGCTTACAGGGAGAGGAGCATGCCTGGCATC 540
Qy 541 GTCCGTGACGACATGCTGTGTGCGGGGAAACCCGGAGGACCTCATGCCAGGGGCATCC 600
Db 541 GTCCGTGACGACATGCTGTGTGCGGGGAAACCCGGAGGACCTCATGCCAGGGGCATCC 600
Qy 601 GGAAGGGCCCGGTGTGAAAGGTGAATGGCACTGGCCCTGCAAGGGGGGTGTGACGTGG 660
Db 601 GGAAGGGCCCGGTGTGAAAGGTGAATGGCACTGGCCCTGCAAGGGGGGTGTGACGTGG 660
Qy 661 GGCGAGGCTGTGTGCGGCAAGCGCGCTGTGCATCACCCTGTGTGACTACTACTTGG 720
Db 661 GGCGAGGCTGTGTGCGGCAAGCGCGCTGTGCATCACCCTGTGTGACTACTACTTGG 720
Qy 721 GACTGAAATCCACCACTATGTGTCCCAAAAAAGCCGTGAAGGCGCGGCTGCT 771
Db 721 GACTGAAATCCACCACTATGTGTCCCAAAAAAGCCGTGAAGGCGCGGCTGCT 771

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RESULT 5

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US-09-598-982C-36
; Sequence 36, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffelt, Mark
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASIS, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 36
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
US-09-598-982C-36

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Query Match 99.0%; Score 763; DB 1; Length 771;
Best Local Similarity 99.4%; Pred. No. 0.039;
Matches 766; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

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Qy 1 GGGCCCTCGAGAAAAGAAATGTCGGGGGTCAAGAGCCCGCCAGAGCAAGTGGCCCTGG 60
Db 1 GGGCCCTCGAGAAAAGAAATGTCGGGGGTCAAGAGCCCGCCAGAGCAAGTGGCCCTGG 60
Qy 61 CAGGTGAAGCTCAGAGTTCACCGGCCAATCTGAATGCACTTGTGGGGGGCTCCCTCATC 120
Db 61 CAGGTGAAGCTCAGAGTTCACCGGCCAATCTGAATGCACTTGTGGGGGGCTCCCTCATC 120
Qy 121 CACCCCGCAGTGGGTCAGTCCGCGCGAGCGCACTGCCTGTGAGCAAGATCTGGCC 180
Db 121 CACCCCGCAGTGGGTCAGTCCGCGCGAGCGCACTGCCTGTGAGCAAGATCTGGCC 180
Qy 181 GGCCTCAGAGGGTGAAGTGTGGGAGGAGCCTCTCACTCAAGAGCAAGTGTGGCGGTG 240
Db 181 GGCCTCAGAGGGTGAAGTGTGGGAGGAGCCTCTCACTCAAGAGCAAGTGTGGCGGTG 240

```

QY 241 AGCAGGATGATGTGTGCAACCCAGCTTCTAACCCTCCAGATGGAGCCGGAATTCGCTCG 300  
 DB 241 AGCAGGATGATGTGTGCAACCCAGCTTCTAACCCTCCAGATGGAGCCGGAATTCGCTCG 300  
 QY 301 CTGGAGCTGGAGGAGCGGGTGAAGGTCTCAGGCACTGTCACACGGTCAACCGTCCCT 360  
 DB 301 CTGGAGCTGGAGGAGCGGGTGAAGGTCTCAGGCACTGTCACACGGTCAACCGTCCCT 360  
 QY 361 GCCTCAGAGACCTTCCCTCCCGGGGATGCCGTGTGGGTCACTGGGCTGGGGCGATGGAC 420  
 DB 361 GCCTCAGAGACCTTCCCTCCCGGGGATGCCGTGTGGGTCACTGGGCTGGGGCGATGGAC 420  
 QY 421 AATGATGAGCGCTCCAGACCGGATTTCTCTGAAAGAGATGAAGTCCCAATAATGAA 480  
 DB 421 AATGATGAGCGCTCCAGACCGGATTTCTCTGAAAGAGATGAAGTCCCAATAATGAA 480  
 QY 481 AACCAATTTGTGAGCGCAAAATPACACCTTGGCGCTTACACGGGAGAGACGATCCGCAATC 540  
 DB 481 AACCAATTTGTGAGCGCAAAATPACACCTTGGCGCTTACACGGGAGAGACGATCCGCAATC 540  
 QY 541 GTCCTGAGAGACCTTCCCTCCCGGGGATGCCGTGTGGGTCACTGGGCTGGGGCGATGGAC 420  
 DB 541 GTCCTGAGAGACCTTCCCTCCCGGGGATGCCGTGTGGGTCACTGGGCTGGGGCGATGGAC 420  
 QY 541 GTCCTGAGAGACCTTCCCTCCCGGGGATGCCGTGTGGGTCACTGGGCTGGGGCGATGGAC 420  
 DB 541 GTCCTGAGAGACCTTCCCTCCCGGGGATGCCGTGTGGGTCACTGGGCTGGGGCGATGGAC 420  
 QY 601 GGAAGGCGCCCTGGTGTGCAAGGTGAATGGCACTGGCTGCAAGCGGGCGTGGTCACTGG 660  
 DB 601 GGAAGGCGCCCTGGTGTGCAAGGTGAATGGCACTGGCTGCAAGCGGGCGTGGTCACTGG 660  
 QY 601 GGAAGGCGCCCTGGTGTGCAAGGTGAATGGCACTGGCTGCAAGCGGGCGTGGTCACTGG 660  
 DB 601 GGAAGGCGCCCTGGTGTGCAAGGTGAATGGCACTGGCTGCAAGCGGGCGTGGTCACTGG 660  
 QY 661 GGGGAGGGGCTGTGTCAGGCGCAACCGGCGCTGGGATCTACCCGCTGTCACTACTTGG 720  
 DB 661 GGGGAGGGGCTGTGTCAGGCGCAACCGGCGCTGGGATCTACCCGCTGTCACTACTTGG 720  
 QY 721 GACTGGATCCACCACTATGTCCCAAAAAAGCCGCTGAAGCGCGCCGCTGT 771  
 DB 721 GACTGGATCCACCACTATGTCCCAAAAAAGCCGCTGAAGCGCGCCGCTGT 771

RESULT 6  
 US-09-598-982C-24  
 ; Sequence 24, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffitt, Mark  
 ; APPLICANT: Haak-Frendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; PRIOR FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 24  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 US-09-598-982C-24

Query Match 98.8%; Score 761.4; DB 1; Length 771;  
 Best Local Similarity 99.2%; Pred. No. 0.04;  
 Matches 765; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GGGCCCTCGTGAAGAAATGTCGGGGGTGCAAGAGGCCCCCAAGGCAAGTGGCCCTGG 60  
 DB 1 GGGCCCTCGTGAAGAAATGTCGGGGGTGCAAGAGGCCCCCAAGGCAAGTGGCCCTGG 60  
 QY 61 CAGGTGAGCCTGAGATCCACGGCCCATACTGATGCACTTCTGGCGGGGCTCCCTCATC 120  
 DB 61 CAGGTGAGCCTGAGATCCACGGCCCATACTGATGCACTTCTGGCGGGGCTCCCTCATC 120

QY 121 CACCCCAAGTGGTGTGACCGGACGCGCATGCGTGGGACCGGACGTCAGAGATTCGGCC 180  
 DB 121 CACCCCAAGTGGTGTGACCGGACGCGCATGCGTGGGACCGGACGTCAGAGATTCGGCC 180  
 QY 181 GCCCTCAGAGGTCAACTGGGGGAGAGACCTCTAATGACAGAGACGAGCTGGCCGGT 240  
 DB 181 GCCCTCAGAGGTCAACTGGGGGAGAGACCTCTAATGACAGAGACGAGCTGGCCGGT 240  
 QY 241 AGCAGGATGATGTGTGCAACCCAGCTTCTAACCCTCCAGATGGAGCCGGAATTCGCTCG 300  
 DB 241 AGCAGGATGATGTGTGCAACCCAGCTTCTAACCCTCCAGATGGAGCCGGAATTCGCTCG 300  
 QY 301 CTGGAGCTGGAGGAGCGGGTGAAGGTCTCAGGCACTGTCACACGGTCAACCGTCCCT 360  
 DB 301 CTGGAGCTGGAGGAGCGGGTGAAGGTCTCAGGCACTGTCACACGGTCAACCGTCCCT 360  
 QY 361 GCCTCAGAGACCTTCCCTCCCGGGGATGCCGTGTGGGTCACTGGGCTGGGGCGATGGAC 420  
 DB 361 GCCTCAGAGACCTTCCCTCCCGGGGATGCCGTGTGGGTCACTGGGCTGGGGCGATGGAC 420  
 QY 421 AATGATGAGCGCTCCAGACCGGATTTCTCTGAAAGAGATGAAGTCCCAATAATGAA 480  
 DB 421 AATGATGAGCGCTCCAGACCGGATTTCTCTGAAAGAGATGAAGTCCCAATAATGAA 480  
 QY 481 AACCAATTTGTGAGCGCAAAATPACACCTTGGCGCTTACACGGGAGAGACGATCCGCAATC 540  
 DB 481 AACCAATTTGTGAGCGCAAAATPACACCTTGGCGCTTACACGGGAGAGACGATCCGCAATC 540  
 QY 541 GTCCTGAGAGACCTTCCCTCCCGGGGATGCCGTGTGGGTCACTGGGCTGGGGCGATGGAC 420  
 DB 541 GTCCTGAGAGACCTTCCCTCCCGGGGATGCCGTGTGGGTCACTGGGCTGGGGCGATGGAC 420  
 QY 601 GGAAGGCGCCCTGGTGTGCAAGGTGAATGGCACTGGCTGCAAGCGGGCGTGGTCACTGG 660  
 DB 601 GGAAGGCGCCCTGGTGTGCAAGGTGAATGGCACTGGCTGCAAGCGGGCGTGGTCACTGG 660  
 QY 661 GGGGAGGGGCTGTGTCAGGCGCAACCGGCGCTGGGATCTACCCGCTGTCACTACTTGG 720  
 DB 661 GGGGAGGGGCTGTGTCAGGCGCAACCGGCGCTGGGATCTACCCGCTGTCACTACTTGG 720  
 QY 721 GACTGGATCCACCACTATGTCCCAAAAAAGCCGCTGAAGCGCGCCGCTGT 771  
 DB 721 GACTGGATCCACCACTATGTCCCAAAAAAGCCGCTGAAGCGCGCCGCTGT 771

RESULT 7  
 US-09-598-982C-26  
 ; Sequence 26, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffitt, Mark  
 ; APPLICANT: Haak-Frendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; PRIOR FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 26  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 US-09-598-982C-26

Query Match 98.8%; Score 761.4; DB 1; Length 771;  
 Best Local Similarity 99.2%; Pred. No. 0.04;

QY 61 CAGGTGAGCCTGAGATCCACGGCCCATACTGATGCACTTCTGGCGGGGCTCCCTCATC 120  
 DB 61 CAGGTGAGCCTGAGATCCACGGCCCATACTGATGCACTTCTGGCGGGGCTCCCTCATC 120

```

Matches 765; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
Oy 1 GGGCCCTCGAGAAAAGATGTCGGGGGTCAAGAGGCCCCCGAGAGCAAGTGGCCCTGG 60
Db 1 GGGCCCTCGAGAAAAGATGTCGGGGGTCAAGAGGCCCCCGAGAGCAAGTGGCCCTGG 60
Oy 61 CAGGTGAGCCTGAGAGTCCACGGCCCAATGCACTGAGTGCCTTCTGGGGGGGCTCCCTCATC 120
Db 61 CAGGTGAGCCTGAGAGTCCACGGCCCAATGCACTGAGTGCCTTCTGGGGGGGCTCCCTCATC 120
Oy 121 CACCCCGAGTGGTGTCTGACCGCAGCGCACTGCGTGGGACCGGACGTCAGAGATCTGGCC 180
Db 121 CACCCCGAGTGGTGTCTGACCGCAGCGCACTGCGTGGGACCGGACGTCAGAGATCTGGCC 180
Oy 181 GCGCTCAGGGTGAACCTGCGGGAGCACTCTAATCAAGAACCAAGCTGTCGGGTG 240
Db 181 GCGCTCAGGGTGAACCTGCGGGAGCACTCTAATCAAGAACCAAGCTGTCGGGTG 240
Oy 241 AGCAGGATCATGTCGCAACCCCAAGTTCACACCGCCCAAGTCCGAGCGGAGACCGCCCTG 300
Db 241 AGCAGGATCATGTCGCAACCCCAAGTTCACACCGCCCAAGTCCGAGCGGAGACCGCCCTG 300
Oy 301 CTGAGAGTGAAGAGCCGGTGAAGGTCTCCAGCCACGTCACACCGTCACTCCCTGGCCCT 360
Db 301 CTGAGAGTGAAGAGCCGGTGAAGGTCTCCAGCCACGTCACACCGTCACTCCCTGGCCCT 360
Oy 361 GCGTCAAGAGACCTTCCCGGGGAGTCCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 420
Db 361 GCGTCAAGAGACCTTCCCGGGGAGTCCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 420
Oy 421 AATGATGAGCGCTCCCAACCGGCAATTCCTGTAAGCAGAGTGAAGTCCCAATATGGA 480
Db 421 AATGATGAGCGCTCCCAACCGGCAATTCCTGTAAGCAGAGTGAAGTCCCAATATGGA 480
Oy 481 AACCAATTTGTGAGCGCAAAATACCACTTGGCGCTTACCGGAGAGACGTCGCCATC 540
Db 481 AACCAATTTGTGAGCGCAAAATACCACTTGGCGCTTACCGGAGAGACGTCGCCATC 540
Oy 541 GTCCGTGACGACATGCTGTGTGTCGGGAAACCCCGAGAGGACTCATGCGCAAGAGACCC 600
Db 541 GTCCGTGACGACATGCTGTGTGTCGGGAAACCCCGAGAGGACTCATGCGCAAGAGACCC 600
Oy 601 GGAAGGGCCCTGATGTCGAAAGTGAATGGCACTGGGCTGCAAGGGGGGGTGGTCAAGTGG 660
Db 601 GGAAGGGCCCTGATGTCGAAAGTGAATGGCACTGGGCTGCAAGGGGGGGTGGTCAAGTGG 660
Oy 661 GCGGAGCCTGTGTGCAAGGTGATGGCACTGTGCAAGGGGGGGTGGTCAAGTGG 720
Db 661 GCGGAGCCTGTGTGCAAGGTGATGGCACTGTGCAAGGGGGGGTGGTCAAGTGG 720
Oy 721 GACTGATCCACCACTAATGTCGCCAAAAAGCCGTGAAGCGGCGCGCTG 771
Db 721 GACTGATCCACCACTAATGTCGCCAAAAAGCCGTGAAGCGGCGCGCTG 771

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; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURES:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-40

Query Match 98.5%; Score 759.8; DB 1; Length 771;
Beeb Local Similarity 99.1%; Pred. No. 0.04;
Matches 764; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Oy 1 GGGCCCTCGAGAAAAGATGTCGGGGGTCAAGAGGCCCCCGAGAGCAAGTGGCCCTGG 60
Db 1 GGGCCCTCGAGAAAAGATGTCGGGGGTCAAGAGGCCCCCGAGAGCAAGTGGCCCTGG 60
Oy 61 CAGGTGAGCCTGAGAGTCCACGGCCCAATGCACTGAGTGCCTTCTGGGGGGGCTCCCTCATC 120
Db 61 CAGGTGAGCCTGAGAGTCCACGGCCCAATGCACTGAGTGCCTTCTGGGGGGGCTCCCTCATC 120
Oy 121 CACCCCGAGTGGTGTCTGACCGCAGCGCACTGCGTGGGACCGGACGTCAGAGATCTGGCC 180
Db 121 CACCCCGAGTGGTGTCTGACCGCAGCGCACTGCGTGGGACCGGACGTCAGAGATCTGGCC 180
Oy 181 GCGCTCAGGGTGAACCTGCGGGAGCACTCTAATCAAGAACCAAGCTGTCGGGTG 240
Db 181 GCGCTCAGGGTGAACCTGCGGGAGCACTCTAATCAAGAACCAAGCTGTCGGGTG 240
Oy 241 AGCAGGATCATGTCGCAACCCCAAGTTCACACCGCCCAAGTCCGAGCGGAGACCGCCCTG 300
Db 241 AGCAGGATCATGTCGCAACCCCAAGTTCACACCGCCCAAGTCCGAGCGGAGACCGCCCTG 300
Oy 301 CTGAGAGTGAAGAGCCGGTGAAGGTCTCCAGCCACGTCACACCGTCACTCCCTGGCCCT 360
Db 301 CTGAGAGTGAAGAGCCGGTGAAGGTCTCCAGCCACGTCACACCGTCACTCCCTGGCCCT 360
Oy 361 GCGTCAAGAGACCTTCCCGGGGAGTCCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 420
Db 361 GCGTCAAGAGACCTTCCCGGGGAGTCCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 420
Oy 421 AATGATGAGCGCTCCCAACCGGCAATTCCTGTAAGCAGAGTGAAGTCCCAATATGGA 480
Db 421 AATGATGAGCGCTCCCAACCGGCAATTCCTGTAAGCAGAGTGAAGTCCCAATATGGA 480
Oy 481 AACCAATTTGTGAGCGCAAAATACCACTTGGCGCTTACCGGAGAGACGTCGCCATC 540
Db 481 AACCAATTTGTGAGCGCAAAATACCACTTGGCGCTTACCGGAGAGACGTCGCCATC 540
Oy 541 GTCCGTGACGACATGCTGTGTGTCGGGAAACCCCGAGAGGACTCATGCGCAAGAGACCC 600
Db 541 GTCCGTGACGACATGCTGTGTGTCGGGAAACCCCGAGAGGACTCATGCGCAAGAGACCC 600
Oy 601 GGAAGGGCCCTGATGTCGAAAGTGAATGGCACTGGGCTGCAAGGGGGGGTGGTCAAGTGG 660
Db 601 GGAAGGGCCCTGATGTCGAAAGTGAATGGCACTGGGCTGCAAGGGGGGGTGGTCAAGTGG 660
Oy 661 GCGGAGCCTGTGTGCAAGGTGATGGCACTGTGCAAGGGGGGGTGGTCAAGTGG 720
Db 661 GCGGAGCCTGTGTGCAAGGTGATGGCACTGTGCAAGGGGGGGTGGTCAAGTGG 720
Oy 721 GACTGATCCACCACTAATGTCGCCAAAAAGCCGTGAAGCGGCGCGCTG 771
Db 721 GACTGATCCACCACTAATGTCGCCAAAAAGCCGTGAAGCGGCGCGCTG 771

RESULT 9
; Sequence 42, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; PRIOR FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 40
; LENGTH: 771

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; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 42
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(735)
; US-09-598-982C-42

```

```

Query Match      98.5%; Score 759.8; DB 1; Length 771;
Best Local Similarity 99.1%; Pred. No. 0.04; Indels 0; Gaps 0;
Matches 764; Conservative 0; Mismatches 7;

```

```

QY 1 GGGCCCCCTGGAGAAAAGAAATCGTGGGGGTCAGAGAGCCGCCAGAGCAAGTGGCCCTGG 60
Db 1 GGGCCCCCTGGAGAAAAGAAATCGTGGGGGTCAGAGAGCCGCCAGAGCAAGTGGCCCTGG 60
QY 61 CAGGTGAGCCCTGAGAGTCCACCGCCCAATCTGATGCACTTTCGGGGGCTCCCTCATC 120
Db 61 CAGGTGAGCCCTGAGAGTCCACCGCCCAATCTGATGCACTTTCGGGGGCTCCCTCATC 120
QY 121 CACCCCAAGTGGGTCAGCCGAGGCGCATCGGTGGGACCGGAGCGTCAAGGATCGGCGC 180
Db 121 CACCCCAAGTGGGTCAGCCGAGGCGCATCGGTGGGACCGGAGCGTCAAGGATCGGCGC 180
QY 181 GCCCTCAGGGATGCACTGGGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 240
Db 181 GCCCTCAGGGATGCACTGGGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 240
QY 241 AGGAGGATCATCTGTGACCCACGATTTCTACCGCCCAAGTGGAGGAGGAGGAGGAGG 300
Db 241 AGGAGGATCATCTGTGACCCACGATTTCTACCGCCCAAGTGGAGGAGGAGGAGGAGG 300
QY 301 CTGGAGCTGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 360
Db 301 CTGGAGCTGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 360
QY 361 GCGCTCAGAGCCTTCCCGCGGGAGTCCGCTGGGTCACCTGGGCGATGTGGAGC 420
Db 361 GCGCTCAGAGCCTTCCCGCGGGAGTCCGCTGGGTCACCTGGGCGATGTGGAGC 420
QY 421 AATGATGAGCGCTCCACCGCCATTTCTTGAAGCAGATGAAAGTCCCAATAATGGA 480
Db 421 AATGATGAGCGCTCCACCGCCATTTCTTGAAGCAGATGAAAGTCCCAATAATGGA 480
QY 481 AACCAATTTGAGCGCAAAATPACACTTGGGGCTTACAGCGGAGAGACGATCCGCAATC 540
Db 481 AACCAATTTGAGCGCAAAATPACACTTGGGGCTTACAGCGGAGAGACGATCCGCAATC 540
QY 541 GTCCTGAGCAGATGCTGTGTGTGTGGGAGAACCCCGAGGAGGAGGAGGAGGAGGAGG 600
Db 541 GTCCTGAGCAGATGCTGTGTGTGTGGGAGAACCCCGAGGAGGAGGAGGAGGAGGAGG 600
QY 601 GGAAGGCCCCCTGAGTGTGCAAGGATGCACTGGGCTGCAAGGCGGGGCTGTGAGCTGG 660
Db 601 GGAAGGCCCCCTGAGTGTGCAAGGATGCACTGGGCTGCAAGGCGGGGCTGTGAGCTGG 660
QY 661 GGGAGAGGCGTGGCCAGGCGCAACCGGCGTGGATTAACCGGATGTGACCTTAATCTTG 720
Db 661 GGGAGAGGCGTGGCCAGGCGCAACCGGCGTGGATTAACCGGATGTGACCTTAATCTTG 720
QY 721 GACTGGATCCACCACTATGTCCCAAAAAGCGGTGAAAGGCGGCGGCTGTGT 771
Db 721 GACTGGATCCACCACTATGTCCCAAAAAGCGGTGAAAGGCGGCGGCTGTGT 771

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```

RESULT 10
US-09-598-982C-10
; Sequence 10, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSINS, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 10
; LENGTH: 735
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(735)
; US-09-598-982C-10

```

```

Query Match      95.3%; Score 735; DB 1; Length 735;
Best Local Similarity 100.0%; Pred. No. 0.054;
Matches 735; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 19 ATCTCGGGGTCAGAGAGCCGCCAGAGCAAGTGGCCCTGGGAGGAGGAGGAGGAGGAGG 78
Db 1 ATCTCGGGGTCAGAGAGCCGCCAGAGCAAGTGGCCCTGGGAGGAGGAGGAGGAGGAGG 78
QY 79 CACGCCCCATCTGGATGCACTTCTGCGGGGCTCCCTCATCCACCCCAATGGATGCTG 138
Db 61 CACGCCCCATCTGGATGCACTTCTGCGGGGCTCCCTCATCCACCCCAATGGATGCTG 120
QY 139 ACCGAGGCGCATGCGTGGGAGCCGAGCGTCAAGGATCTGGCCCTTCAAGGAGGAGGAG 198
Db 121 ACCGAGGCGCATGCGTGGGAGCCGAGCGTCAAGGATCTGGCCCTTCAAGGAGGAGGAG 180
QY 199 CGGAGGAGCAGCTCTATACAGAGCCAGGTCGCGGAGGAGGAGGAGGAGGAGGAGGAGG 258
Db 181 CGGAGGAGCAGCTCTATACAGAGCCAGGTCGCGGAGGAGGAGGAGGAGGAGGAGGAGG 240
QY 259 CCACAGTCTTACACCGCCAGATGCGAGGAGCAATGCGCCCTGCTGAGGAGGAGGAGGAG 318
Db 241 CCACAGTCTTACACCGCCAGATGCGAGGAGCAATGCGCCCTGCTGAGGAGGAGGAGGAG 300
QY 319 GTAAAGTCTCCAGCAGTCCACGCTCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 378
Db 301 GTAAAGTCTCCAGCAGTCCACGCTCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 360
QY 379 CCGGGGATGCGGTGTGGGTCAGTGGGCGGGGAGTGGGAGCAATGATGAGGCGGCTCCCA 438
Db 361 CCGGGGATGCGGTGTGGGTCAGTGGGCGGGGAGTGGGAGCAATGATGAGGCGGCTCCCA 420
QY 439 CCGCCATTTCTTGAAGCAGTGAAGTCCCAATAATGAAAACAATTTGAGCGCA 498
Db 421 CCGCCATTTCTTGAAGCAGTGAAGTCCCAATAATGAAAACAATTTGAGCGCA 480
QY 499 AAATPACACTTGGGGCTTACAGCGGAGAGCAGTCCGCAATGCTGCTGAGCAGATGCTG 558
Db 481 AAATPACACTTGGGGCTTACAGCGGAGAGCAGTCCGCAATGCTGCTGAGCAGATGCTG 540
QY 559 TGTGCGGGGAAACACCCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 618
Db 541 TGTGCGGGGAAACACCCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 600
QY 619 AAGGTGAATGGCACCTGCTGAGGCGGGGCGTGGTCACTGAGTGGGCGGAGGAGGCTGTGCCAG 678
Db 601 AAGGTGAATGGCACCTGCTGAGGCGGGGCGTGGTCACTGAGTGGGCGGAGGAGGCTGTGCCAG 660

```

Oy 679 CCAACGGCGCCGTCATGACCCCGTGTCACTACTTGGATCGATCCACCCTAT 738  
 |||  
 Db 661 CCAACCGGCGCCGTCATGACCCCGTGTCACTACTTGGATCGATCCACCCTAT 720  
 Oy 739 GTCCCGAAAAAGCCG 753  
 |||  
 Db 721 GTCCCGAAAAAGCCG 735

RESULT 11

US-09-598-982C-8/c  
 ; Sequence 8, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffitt, Mark  
 ; APPLICANT: Haak-Frendescho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPPASES, ACTIVE SITE MUTANTS THEREOF,  
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; CURRENT FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; PRIOR FILING DATE: 1998-04-15  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO: 8  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 US-09-598-982C-8

Query Match 3.7%; Score 28.2; DB 1; Length 771;  
 Best Local Similarity 53.1%; Pred. No. 17;  
 Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

Oy 1 GGGCCCTCGAAGAAAGATGTCGGGGGTCAAGAGCCCGCCAGAGCAAGTGGCCCTGG 60  
 |||  
 Db 113 GAGCCCCCGAGAAAGTGCATCCAGTATGAGCCCGTGAAGTCTCAAGCTCCAGCGGCG 54  
 Oy 61 CAGGTGAGCCTGAGAGTCCACGGCCCAATCTGATGCACTTCTCGGGGGCTC 113  
 |||  
 Db 53 CACTTGCTCTGGGGGGCTCTGACCCCGAGCAATTTCTTCTCGAGGGGGCC 1

RESULT 12

US-09-598-982C-20/c  
 ; Sequence 20, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffitt, Mark  
 ; APPLICANT: Haak-Frendescho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPPASES, ACTIVE SITE MUTANTS THEREOF,  
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; CURRENT FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; PRIOR FILING DATE: 1998-04-15  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO: 20  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 US-09-598-982C-20

Query Match 3.7%; Score 28.2; DB 1; Length 771;

Best Local Similarity 53.1%; Pred. No. 17;  
 Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

Oy 1 GGGCCCTCGAAGAAAGATGTCGGGGGTCAAGAGCCCGCCAGAGCAAGTGGCCCTGG 60  
 |||  
 Db 113 GAGCCCCCGAGAAAGTGCATCCAGTATGAGCCCGTGAAGTCTCAAGCTCCAGCGGCG 54  
 Oy 61 CAGGTGAGCCTGAGAGTCCACGGCCCAATCTGATGCACTTCTCGGGGGCTC 113  
 |||  
 Db 53 CACTTGCTCTGGGGGGCTCTGACCCCGAGCAATTTCTTCTCGAGGGGGCC 1

RESULT 13

US-09-598-982C-22/c  
 ; Sequence 22, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffitt, Mark  
 ; APPLICANT: Haak-Frendescho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPPASES, ACTIVE SITE MUTANTS THEREOF,  
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; CURRENT FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; PRIOR FILING DATE: 1998-04-15  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO: 22  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 US-09-598-982C-22

Query Match 3.7%; Score 28.2; DB 1; Length 771;  
 Best Local Similarity 53.1%; Pred. No. 17;  
 Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

Oy 1 GGGCCCTCGAAGAAAGATGTCGGGGGTCAAGAGCCCGCCAGAGCAAGTGGCCCTGG 60  
 |||  
 Db 113 GAGCCCCCGAGAAAGTGCATCCAGTATGAGCCCGTGAAGTCTCAAGCTCCAGCGGCG 54  
 Oy 61 CAGGTGAGCCTGAGAGTCCACGGCCCAATCTGATGCACTTCTCGGGGGCTC 113  
 |||  
 Db 53 CACTTGCTCTGGGGGGCTCTGACCCCGAGCAATTTCTTCTCGAGGGGGCC 1

RESULT 14

US-09-598-982C-24/c  
 ; Sequence 24, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffitt, Mark  
 ; APPLICANT: Haak-Frendescho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPPASES, ACTIVE SITE MUTANTS THEREOF,  
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; CURRENT FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; PRIOR FILING DATE: 1998-04-15  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO: 24  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)

Query Match 3.7%; Score 28.2; DB 1; Length 771;

US-09-598-982C-24

Query Match 3.7%; Score 28.2; DB 1; Length 771; Best Local Similarity 53.1%; Pred. No. 17; Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

QY 1 GGGCCCCCTCGAAGAAAGATGTCGGGGGTCAGAGAGCCCCCAGAGCAAGTGGCCCTGG 60
DB 113 GAGCCCCCGGAGAAAGTGCATCCAGTATGGGCCCTGAGCTCTCAGGCTCACTGCCCCAGGGC 54
QY 61 CAGGTGAGCCTGAGAGATCCAGGCCCATATCTGGATGCACTTCTGCGGGGGCTC 113
DB 53 CACTTGCTCTCGGGGGCTCTCCAGACCCCGGAGCATTTCTTTTCTCGAGGGGGCC 1

RESULT 15
US-09-598-982C-26/c
Sequence 26, Application US/095598982C

GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506.104
CURRENT FILING DATE: 2000-06-21
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 26
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (7)..(753)
US-09-598-982C-26

Query Match 3.7%; Score 28.2; DB 1; Length 771; Best Local Similarity 53.1%; Pred. No. 17; Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;
QY 1 GGGCCCCCTCGAAGAAAGATGTCGGGGGTCAGAGAGCCCCCAGAGCAAGTGGCCCTGG 60
DB 113 GAGCCCCCGGAGAAAGTGCATCCAGTATGGGCCCTGAGCTCTCAGGCTCACTGCCCCAGGGC 54
QY 61 CAGGTGAGCCTGAGAGATCCAGGCCCATATCTGGATGCACTTCTGCGGGGGCTC 113
DB 53 CACTTGCTCTCGGGGGCTCTCCAGACCCCGGAGCATTTCTTTTCTCGAGGGGGCC 1

RESULT 16
US-09-598-982C-36/c
Sequence 36, Application US/095598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506.104
CURRENT FILING DATE: 2000-06-21
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 36
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens

FEATURE:
NAME/KEY: CDS
LOCATION: (7)..(753)
US-09-598-982C-36

Query Match 3.7%; Score 28.2; DB 1; Length 771; Best Local Similarity 53.1%; Pred. No. 17; Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;
QY 1 GGGCCCCCTCGAAGAAAGATGTCGGGGGTCAGAGAGCCCCCAGAGCAAGTGGCCCTGG 60
DB 113 GAGCCCCCGGAGAAAGTGCATCCAGTATGGGCCCTGAGCTCTCAGGCTCACTGCCCCAGGGC 54
QY 61 CAGGTGAGCCTGAGAGATCCAGGCCCATATCTGGATGCACTTCTGCGGGGGCTC 113
DB 53 CACTTGCTCTCGGGGGCTCTCCAGACCCCGGAGCATTTCTTTTCTCGAGGGGGCC 1

RESULT 17
US-09-598-982C-38/c
Sequence 38, Application US/095598982C

GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506.104
CURRENT FILING DATE: 2000-06-21
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 38
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (7)..(753)
US-09-598-982C-38

Query Match 3.7%; Score 28.2; DB 1; Length 771; Best Local Similarity 53.1%; Pred. No. 17; Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;
QY 1 GGGCCCCCTCGAAGAAAGATGTCGGGGGTCAGAGAGCCCCCAGAGCAAGTGGCCCTGG 60
DB 113 GAGCCCCCGGAGAAAGTGCATCCAGTATGGGCCCTGAGCTCTCAGGCTCACTGCCCCAGGGC 54
QY 61 CAGGTGAGCCTGAGAGATCCAGGCCCATATCTGGATGCACTTCTGCGGGGGCTC 113
DB 53 CACTTGCTCTCGGGGGCTCTCCAGACCCCGGAGCATTTCTTTTCTCGAGGGGGCC 1

RESULT 18
US-09-598-982C-40/c
Sequence 40, Application US/095598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506.104
CURRENT FILING DATE: 2000-06-21
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 40



```

; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
US-09-598-982C-40

```

```

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

```

```

Oy 1 GGGCCCCCTCGAAGAAAGATGTCGGGGGTGTCAGAGAGCCCGGAGGAGCAAGTGGCCCTGG 60
Db 113 GAGCCCCCGGAGAAATGATCCAGTATGAGGCGCGTCTCAGGCTCAGCCTGCCAGGAG 54
Oy 61 CAGGTGAGCCTCGAGAGTCCAGGCCCATATGATGCACTTCTGCGGGGGCTC 113
Db 53 CACTTGTCTCTGGGGGCTCTCGAGCCCCCGAGCAATTTCTTCTCGAGGGGGCC 1

```

```

RESULT 19
US-09-598-982C-42/c
; Sequence 42, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendascho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSINS, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; PRIOR FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 42
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
US-09-598-982C-42

```

```

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

```

```

Oy 1 GGGCCCCCTCGAAGAAAGATGTCGGGGGTGTCAGAGAGCCCGGAGGAGCAAGTGGCCCTGG 60
Db 113 GAGCCCCCGGAGAAATGATCCAGTATGAGGCGCGTCTCAGGCTCAGCCTGCCAGGAG 54
Oy 61 CAGGTGAGCCTCGAGAGTCCAGGCCCATATGATGCACTTCTGCGGGGGCTC 113
Db 53 CACTTGTCTCTGGGGGCTCTCGAGCCCCCGAGCAATTTCTTCTCGAGGGGGCC 1

```

```

RESULT 20
US-09-598-982C-10/c
; Sequence 10, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendascho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSINS, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; PRIOR FILING DATE: 1998-04-15

```

```

; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 10
; LENGTH: 735
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(735)
US-09-598-982C-10
Query Match 3.5%; Score 27.2; DB 1; Length 735;
Best Local Similarity 52.9%; Pred. No. 18;
Matches 100; Conservative 0; Mismatches 83; Indels 6; Gaps 2;

```

```

Oy 286 GCGGACATCGCCCTGCTGAGAGTGGAGGCGCGGTGAAGTCTCCAGCCAGCTCCAGC 345
Db 453 GGGGACCTTCACTCGTTCAGAGAAATGGCGGTGGAGGGCGCTCATATTGTCCACA-- 396
Oy 346 GTCAACCTGCCCCCTGCTGAGAGACCTTCCCCCGGGGAATGCCGTGGGTGACTGGC 405
Db 395 -TGCCTCCAGGAGTACCCAGCAGCGGCAATCCCCGGGGGAAGGTCTTGAAGCAGGGG 337
Oy 406 TGGGGCGA---TGTGACAAATGATAGCGCCCTCCACCAGCCATTCTCTGAAAGCAGGTG 462
Db 336 CAGGTGAGCGGTGTGAGAGTGGCTGAGAGACCTTCAACGGGCTCTCCAGCTCCAGCAGGGC 277
Oy 463 AAGTCCCC 471
Db 276 GATGTCCG 268

```

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Search completed: August 26, 2005, 12:32:25
Job time : 3.81314 secs

```

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

```

Run on: August 26, 2005, 12:31:55 ; Search time 2.68178 Seconds
(without alignments)
4.206 Million cell updates/sec

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```

Title: US-09-598-982C-10
Perfect score: 735
Sequence: 1 atcgcg9999gtcag9agc.....actatgtcccaaaaagcgc 735

```

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Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 0.5

```

```

Searched: 10 seqs, 7674 residues
Total number of hits satisfying chosen parameters: 20

```

```

Minimum DB seq length: 0
Maximum DB seq length: Inf

```

```

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 20 summaries

```

```

Database : US09598982C.rev.seq.*

```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Result No.	Query Match	Score	Query Length	DB ID	Description
SUMMARIES					



```

Db 139 ACCGAGGAGCACTGGTGGAGACCGGACGTCAGAGATCTGGCCGCCCTTCAAGGGTGAATTG 198
Oy 181 CGGAGGAGCAGCCTTACTACCGAGCAGCTGCTCCGGTCCAGAGGATCATCTGTGAC 240
Db 199 CGGGAGCAGCACTTACTTACCGAGCCAGCTGCTGCCGGTCCAGAGGATCATCTGTGAC 258
Oy 241 CCAAGTTCTACACCGCCGAGATGGAGGCGGACATGGCCCTGCTGGAGACTGGAGAGCCG 300
Db 259 CCAAGTTCTACACCGCCGAGATGGAGGCGGACATGGCCCTGCTGGAGACTGGAGAGCCG 318
Oy 301 GTGAAGGTTCTCAAGCCAGCTCCACACCGGTCACTCCGCCCTGCTGAGAGCCTTCCCC 360
Db 319 GTGAAGGTTCTCAAGCCAGCTCCACACCGGTCACTCCGCCCTGCTGAGAGCCTTCCCC 378
Oy 361 CCGGGGATGCCGTGTGGTCACTGGCTGGGGCGATGTGGAACAATGATGAGCCCTCCCA 420
Db 379 CCGGGGATGCCGTGTGGTCACTGGCTGGGGCGATGTGGAACAATGATGAGCCCTCCCA 438
Oy 421 CCGCAATTTCTCTGAAAGAGGATGAAGTCCCAATTAATGAAACCAATTTGTAAGCCA 480
Db 439 CCGCAATTTCTCTGAAAGAGGATGAAGTCCCAATTAATGAAACCAATTTGTAAGCCA 498
Oy 481 AAATPACACTTGGGCGCTTACACCGGAGAGCAGCTCCGGATGTCCGTGACGACATGGCTG 540
Db 499 AAATPACACTTGGGCGCTTACACCGGAGAGCAGCTCCGGATGTCCGTGACGACATGGCTG 558
Oy 541 TGTGCGGGAAACACCCCGAGAGGAGCTCATGTCCAGGGGCGACTCCGGAGGGCCCTGTGTG 600
Db 559 TGTGCGGGAAACACCCCGAGAGGAGCTCATGTCCAGGGGCGACTCCGGAGGGCCCTGTGTG 618
Oy 601 AAGGTGATGGACCTGGCTGAGAGGCGGCTGTGATGACTGGGGGAGAGGCTGTGCCAG 660
Db 619 AAGGTGATGGACCTGGCTGAGAGGCGGCTGTGATGACTGGGGGAGAGGCTGTGCCAG 678
Oy 661 CCGAACCGGCGCTGGCATCTACACCGGTGTCACTTACTTGGATCGAGTCCACACTAT 720
Db 679 CCGAACCGGCGCTGGCATCTACACCGGTGTCACTTACTTGGATCGAGTCCACACTAT 738
Oy 721 GTCCCAAAAAAGCCG 735
Db 739 GTCCCAAAAAAGCCG 753

```

```

RESULT 3
US-09-598-982C-22
; Sequence 22, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendescho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSINS, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT FILING DATE: 2000-06-21
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 22
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURe:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
US-09-598-982C-22

```

```

Query Match 99.6%; Score 731.8; DB 1; Length 771;
Best Local Similarity 99.7%; Pred. No. 0.054;
Matches 733; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

```

Oy 1 ATGTCGGGGGTACAGAGGCCCCCAGAGGAAGTGGCCCTGGSCAGGATGAGGCTGAGATC 60
Db 19 ATGTCGGGGGTACAGAGGCCCCCAGAGGAAGTGGCCCTGGSCAGGATGAGGCTGAGATC 78
Oy 61 CACGGCCATPACTGAGATGACCTTCTGCGGGGGCTCCCTCATACACCCCACTGGGGTGTG 120
Db 79 CACGGCCATPACTGAGATGACCTTCTGCGGGGGCTCCCTCATACACCCCACTGGGGTGTG 138
Oy 121 ACCGAGGCGCATGCGTGGGAGCCGGAAGTCAAGATCTGGCCCTTCAAGGGTCAACTG 180
Db 139 ACCGAGGCGCATGCGTGGGAGCCGGAAGTCAAGATCTGGCCCTTCAAGGGTCAACTG 198
Oy 181 CGGGAGGAGCAGCTTACTACAGAGCAGCTGGCCGGTCAAGAGATCATGTGAC 240
Db 199 CGGGAGGAGCAGCTTACTACAGAGCAGCTGGCCGGTCAAGAGATCATGTGAC 258
Oy 241 CCAAGTTCTACACCGCCGAGATGGAGGCGGACATGGCCCTGCTGGAGACTGGAGAGCCG 300
Db 259 CCAAGTTCTACACCGCCGAGATGGAGGCGGACATGGCCCTGCTGGAGACTGGAGAGCCG 318
Oy 301 GTGAAGGTTCTCAAGCCAGCTCCACACCGGTCACTCCGCCCTGCTGAGAGCCTTCCCC 360
Db 319 GTGAAGGTTCTCAAGCCAGCTCCACACCGGTCACTCCGCCCTGCTGAGAGCCTTCCCC 378
Oy 361 CCGGGGATGCCGTGTGGTCACTGGCTGGGGCGATGTGGAACAATGATGAGCCCTCCCA 420
Db 379 CCGGGGATGCCGTGTGGTCACTGGCTGGGGCGATGTGGAACAATGATGAGCCCTCCCA 438
Oy 421 CCGCAATTTCTCTGAAAGAGGATGAAGTCCCAATTAATGAAACCAATTTGTAAGCCA 480
Db 439 CCGCAATTTCTCTGAAAGAGGATGAAGTCCCAATTAATGAAACCAATTTGTAAGCCA 498
Oy 481 AAATPACACTTGGGCGCTTACACCGGAGAGCAGCTCCGGATGTCCGTGACGACATGGCTG 540
Db 499 AAATPACACTTGGGCGCTTACACCGGAGAGCAGCTCCGGATGTCCGTGACGACATGGCTG 558
Oy 541 TGTGCGGGAAACACCCCGAGAGGAGCTCATGTCCAGGGGCGACTCCGGAGGGCCCTGTGTG 600
Db 559 TGTGCGGGAAACACCCCGAGAGGAGCTCATGTCCAGGGGCGACTCCGGAGGGCCCTGTGTG 618
Oy 601 AAGGTGATGGACCTGGCTGAGAGGCGGCTGTGATGACTGGGGGAGAGGCTGTGCCAG 660
Db 619 AAGGTGATGGACCTGGCTGAGAGGCGGCTGTGATGACTGGGGGAGAGGCTGTGCCAG 678
Oy 661 CCGAACCGGCGCTGGCATCTACACCGGTGTCACTTACTTGGATCGAGTCCACACTAT 720
Db 679 CCGAACCGGCGCTGGCATCTACACCGGTGTCACTTACTTGGATCGAGTCCACACTAT 738
Oy 721 GTCCCAAAAAAGCCG 735
Db 739 GTCCCAAAAAAGCCG 753

```

```

RESULT 4
US-09-598-982C-38
; Sequence 38, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendescho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSINS, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT FILING DATE: 2000-06-21
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 38
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens

```

```

FEATURE:
NAME/KEY: CDS
LOCATION: (7)..(753)
US-09-598-982C-38

```

```

Query Match 99.3%; Score 730.2; DB 1; Length 771;
Best Local Similarity 99.6%; Pred. No. 0.055;
Matches 732; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

```

```

OY 1 ATCGTCGGGGGTCAAGAGGCCCCCAGAGCAAGTGGCCCTGGCAGGTGAGCCTGAGAGTC 60
DB 19 ATCGTCGGGGGTCAAGAGGCCCCCAGAGCAAGTGGCCCTGGCAGGTGAGCCTGAGAGTC 78
OY 61 CACGGCCCACTACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 120
DB 79 CACGGCCCACTACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 138
OY 121 ACCGGAGGCACTGGTGGGAGACCGGACGTCAGAGATCTGGCCGCTGAGGGTGAATCG 180
DB 139 ACCGGAGGCACTGGTGGGAGACCGGACGTCAGAGATCTGGCCGCTGAGGGTGAATCG 198
OY 181 CCGGAGCAGCAGCCTACTACTACAGAGCAAGTGGCCCTGGCAGGTGAGCCTGAGAGTC 240
DB 199 CCGGAGCAGCAGCCTACTACTACAGAGCAAGTGGCCCTGGCAGGTGAGCCTGAGAGTC 258
OY 241 CCAAGTTCTAACAAGCCCAAGTCCGAGCGGACATTCGCTGCTGAGGCTGAGAGTCG 300
DB 259 CCAAGTTCTAACAAGCCCAAGTCCGAGCGGACATTCGCTGCTGAGGCTGAGAGTCG 318
OY 301 GTGAAAGTCTCCAGGCAAGTCCGAGCGGACATTCGCTGCTGAGGCTGAGAGTCG 360
DB 319 GTGAAAGTCTCCAGGCAAGTCCGAGCGGACATTCGCTGCTGAGGCTGAGAGTCG 378
OY 361 CCGGGAGATCCGTCGTGGTCACTGGCTGGGGCGATGAGAGCAATGATGAGCCCTCCCA 420
DB 379 CCGGGAGATCCGTCGTGGTCACTGGCTGGGGCGATGAGAGCAATGATGAGCCCTCCCA 438
OY 421 CCGCCATTTCTCTGAAAGGATGAAAGTCCCAATGATGAAAGCAATTTGTAACGCA 480
DB 439 CCGCCATTTCTCTGAAAGGATGAAAGTCCCAATGATGAAAGCAATTTGTAACGCA 498
OY 481 AAATPACAACCTTGGGCGCTAACAAGGAGAGCAAGTCCGATGCTCCGATGAGAGCAATG 540
DB 499 AAATPACAACCTTGGGCGCTAACAAGGAGAGCAAGTCCGATGCTCCGATGAGAGCAATG 558
OY 541 TGTGCCGGGAAACACCCCGGAGGAGCACTATGCAAGGAGGAGGAGGAGGAGGAGGAGG 600
DB 559 TGTGCCGGGAAACACCCCGGAGGAGCACTATGCAAGGAGGAGGAGGAGGAGGAGGAGG 618
OY 601 AAGGTGATGAGCACTGGTGGTGAAGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 660
DB 619 AAGGTGATGAGCACTGGTGGTGAAGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 678
OY 661 CCAACCGGCTGGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 720
DB 679 CCAACCGGCTGGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 738
OY 721 GTCCCAAAAAGCCG 735
DB 739 GTCCCAAAAAGCCG 753

```

```

RESULT 5
US-09-598-982C-20
; Sequence 20, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffett, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C

```

```

CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079,970
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 20
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (7)..(753)
US-09-598-982C-20

```

```

Query Match 99.1%; Score 728.6; DB 1; Length 771;
Best Local Similarity 99.5%; Pred. No. 0.056;
Matches 731; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

```

```

OY 1 ATCGTCGGGGGTCAAGAGGCCCCCAGAGCAAGTGGCCCTGGCAGGTGAGCCTGAGAGTC 60
DB 19 ATCGTCGGGGGTCAAGAGGCCCCCAGAGCAAGTGGCCCTGGCAGGTGAGCCTGAGAGTC 78
OY 61 CACGGCCCACTACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 120
DB 79 CACGGCCCACTACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 138
OY 121 ACCGGAGGCACTGGTGGGAGACCGGACGTCAGAGATCTGGCCGCTGAGGGTGAATCG 180
DB 139 ACCGGAGGCACTGGTGGGAGACCGGACGTCAGAGATCTGGCCGCTGAGGGTGAATCG 198
OY 181 CCGGAGCAGCAGCCTACTACTACAGAGCAAGTGGCCCTGGCAGGTGAGCCTGAGAGTC 240
DB 199 CCGGAGCAGCAGCCTACTACTACAGAGCAAGTGGCCCTGGCAGGTGAGCCTGAGAGTC 258
OY 241 CCAAGTTCTAACAAGCCCAAGTCCGAGCGGACATTCGCTGCTGAGGCTGAGAGTCG 300
DB 259 CCAAGTTCTAACAAGCCCAAGTCCGAGCGGACATTCGCTGCTGAGGCTGAGAGTCG 318
OY 301 GTGAAAGTCTCCAGGCAAGTCCGAGCGGACATTCGCTGCTGAGGCTGAGAGTCG 360
DB 319 GTGAAAGTCTCCAGGCAAGTCCGAGCGGACATTCGCTGCTGAGGCTGAGAGTCG 378
OY 361 CCGGGAGATCCGTCGTGGTCACTGGCTGGGGCGATGAGAGCAATGATGAGCCCTCCCA 420
DB 379 CCGGGAGATCCGTCGTGGTCACTGGCTGGGGCGATGAGAGCAATGATGAGCCCTCCCA 438
OY 421 CCGCCATTTCTCTGAAAGGATGAAAGTCCCAATGATGAAAGCAATTTGTAACGCA 480
DB 439 CCGCCATTTCTCTGAAAGGATGAAAGTCCCAATGATGAAAGCAATTTGTAACGCA 498
OY 481 AAATPACAACCTTGGGCGCTAACAAGGAGAGCAAGTCCGATGCTCCGATGAGAGCAATG 540
DB 499 AAATPACAACCTTGGGCGCTAACAAGGAGAGCAAGTCCGATGCTCCGATGAGAGCAATG 558
OY 541 TGTGCCGGGAAACACCCCGGAGGAGCACTATGCAAGGAGGAGGAGGAGGAGGAGGAGG 600
DB 559 TGTGCCGGGAAACACCCCGGAGGAGCACTATGCAAGGAGGAGGAGGAGGAGGAGGAGG 618
OY 601 AAGGTGATGAGCACTGGTGGTGAAGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 660
DB 619 AAGGTGATGAGCACTGGTGGTGAAGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 678
OY 661 CCAACCGGCTGGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 720
DB 679 CCAACCGGCTGGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 738
OY 721 GTCCCAAAAAGCCG 735
DB 739 GTCCCAAAAAGCCG 753

```

```

RESULT 6
US-09-598-982C-36

```

```

; Sequence 36, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffei, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSINS, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 36
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-36

```

```

Query Match 98.9%; Score 727; DB 1; Length 771;
Best Local Similarity 99.3%; Pred. No. 0.057;
Matches 730; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

```

```

OY 1 ATCGTCGGGGGTGACAGAGGCCCCCAGAGCAAGTGGCCCTGGCAGGTGAGCCTGAGAGTC 60
DB 19 ATCGTCGGGGGTGACAGAGGCCCCCAGAGCAAGTGGCCCTGGCAGGTGAGCCTGAGAGTC 78
OY 61 CACGGCCCAATCTGATGATGACTTCTGGGGGGGCTCCCTCATCCACCCCAAGTGGGTGCTG 120
DB 79 CACGGCCCAATCTGATGATGACTTCTGGGGGGGCTCCCTCATCCACCCCAAGTGGGTGCTG 138
OY 121 ACCGAGGCGCACTGCGTGGAGACCGGACGTCAGAGATCTGGCCCTCAGAGGTGCACTG 180
DB 139 ACCGCGGGGGGTGCTGGAGACCGGACGTCAGAGATCTGGCCCTCAGAGGTGCACTG 198
OY 181 CCGGAGCAGCACTCTTACTACAGGACCGAGCTGCTGGCGGTGAGAGATCATCTGTGAC 240
DB 199 CCGGAGCAGCACTCTTACTACAGGACCGAGCTGCTGGCGGTGAGAGATCATCTGTGAC 258
OY 241 CCAAGTCTTACACCGCCCAAGTGGAGAGGGAATCGCCCTGGTGGATGGAGAGGCG 300
DB 259 CCAAGTCTTACACCGCCCAAGTGGAGAGGGAATCGCCCTGGTGGATGGAGAGGCG 318
OY 301 GTGAAGGTCTCCAGCCAGTCCACAGGTCAACCTGCCCCCTCAGAGACTTCCCC 360
DB 319 GTGAAGGTCTCCAGCCAGTCCACAGGTCAACCTGCCCCCTCAGAGACTTCCCC 378
OY 361 CCGGGGATGCGGTGCTGGGTCACTGAGTGGGGGAGTGTGAGCAATGATGAGGCGCTCCA 420
DB 379 CCGGGGATGCGGTGCTGGGTCACTGAGTGGGGGAGTGTGAGCAATGATGAGGCGCTCCA 438
OY 421 CCGGCATTTCTCTGAAGAGGATGAAAGTCCCAATGAAAGAAACAATTTTGTGACGA 480
DB 439 CCGGCATTTCTCTGAAGAGGATGAAAGTCCCAATGAAAGAAACAATTTTGTGACGA 498
OY 481 AAATPACACTTTGGGCGCTTACAGGGAGAGCAAGTCCCGATGCTCCGTGACGACATGCTG 540
DB 499 AAATPACACTTTGGGCGCTTACAGGGAGAGCAAGTCCCGATGCTCCGTGACGACATGCTG 558
OY 541 TGTGCGGGGAAACACCCGGAGGAGCTCATGCGAGGCGACTCCGAGAGGCGCCCTGTGTGC 600
DB 559 TGTGCGGGGAAACACCCGGAGGAGCTCATGCGAGGCGACTCCGAGAGGCGCCCTGTGTGC 618
OY 601 AAGGTGAATGGACCTGCTGAGAGGCGGGCGTGTCAAGTGGGGGAGAGGCGGTGTCGACG 660
DB 619 AAGGTGAATGGACCTGCTGAGAGGCGGGCGTGTCAAGTGGGGGAGAGGCGGTGTCGACG 678
OY 661 CCAACCGGCGCTGGGATCTTACACCGGTGTCACTTGTGATGATCCACCACTAT 720

```

```

DB 679 CCAACCGGCGCTGGGATCTTACACCGGTGTCACTTGTGATGATCCACCACTAT 738
OY 721 GTCCCAAAAAGCGG 735
DB 739 GTCCCAAAAAGCGG 753

```

RESULT 7

```

US-09-598-982C-24
; Sequence 24, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffei, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSINS, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 24
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-24

```

```

Query Match 98.7%; Score 725.4; DB 1; Length 771;
Best Local Similarity 99.2%; Pred. No. 0.058;
Matches 729; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

```

```

OY 1 ATCGTCGGGGGTGACAGAGGCCCCCAGAGCAAGTGGCCCTGGCAGGTGAGCCTGAGAGTC 60
DB 19 ATCGTCGGGGGTGACAGAGGCCCCCAGAGCAAGTGGCCCTGGCAGGTGAGCCTGAGAGTC 78
OY 61 CACGGCCCAATCTGATGATGACTTCTGGGGGGGCTCCCTCATCCACCCCAAGTGGGTGCTG 120
DB 79 CACGGCCCAATCTGATGATGACTTCTGGGGGGGCTCCCTCATCCACCCCAAGTGGGTGCTG 138
OY 121 ACCGAGGCGCACTGCGTGGAGACCGGACGTCAGAGATCTGGCCCTCAGAGGTGCACTG 180
DB 139 ACCGCGGGGGGTGCTGGAGACCGGACGTCAGAGATCTGGCCCTCAGAGGTGCACTG 198
OY 181 CCGGAGCAGCACTCTTACTACAGGACCGAGCTGCTGGCGGTGAGAGATCATCTGTGAC 240
DB 199 CCGGAGCAGCACTCTTACTACAGGACCGAGCTGCTGGCGGTGAGAGATCATCTGTGAC 258
OY 241 CCAAGTCTTACACCGCCCAAGTGGAGAGGGAATCGCCCTGGTGGATGGAGAGGCG 300
DB 259 CCAAGTCTTACACCGCCCAAGTGGAGAGGGAATCGCCCTGGTGGATGGAGAGGCG 318
OY 301 GTGAAGGTCTCCAGCCAGTCCACAGGTCAACCTGCCCCCTCAGAGACTTCCCC 360
DB 319 GTGAAGGTCTCCAGCCAGTCCACAGGTCAACCTGCCCCCTCAGAGACTTCCCC 378
OY 361 CCGGGGATGCGGTGCTGGGTCACTGAGTGGGGGAGTGTGAGCAATGATGAGGCGCTCCA 420
DB 379 CCGGGGATGCGGTGCTGGGTCACTGAGTGGGGGAGTGTGAGCAATGATGAGGCGCTCCA 438
OY 421 CCGGCATTTCTCTGAAGAGGATGAAAGTCCCAATGAAAGAAACAATTTTGTGACGA 480
DB 439 CCGGCATTTCTCTGAAGAGGATGAAAGTCCCAATGAAAGAAACAATTTTGTGACGA 498
OY 481 AAATPACACTTTGGGCGCTTACAGGGAGAGCAAGTCCCGATGCTCCGTGACGACATGCTG 540
DB 499 AAATPACACTTTGGGCGCTTACAGGGAGAGCAAGTCCCGATGCTCCGTGACGACATGCTG 558
OY 541 TGTGCGGGGAAACACCCGGAGGAGCTCATGCGAGGCGACTCCGAGAGGCGCCCTGTGTGC 600

```

```

Db      |||
559 TGTGCGGGAAACCCGGAGGGACTCATATGCAAGGGAGCGCGGACCTCTGGTGTGC 618
Qy      |||
601 AAGGTGATGAGCACTGGCTGAGCGGGCGTGTGATGAGCTGGGGCGAGGGCTGTGCCAG 660
Db      |||
619 AAGGTGAATGGAGCACTGGCTGAGCGGGCGTGTGATGAGCTGGGGCGAGGGCTGTGCCAG 678
Qy      |||
661 CCCAACCGGCTGGGACTGATCAACCCGCTGACCTACTACTTGGATGATGCCACTAT 720
Db      |||
679 CCCAACCGGCTGGGACTGATCAACCCGCTGACCTACTACTTGGATGATGCCACTAT 738
Qy      |||
721 GTCCCCAAAAGCCG 735
Db      |||
739 GTCCCCAAAAGCCG 753

```

```

RESULT 8
US-09-598-982C-26
; Sequence 26, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Nileş, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; PRIORITY FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 26
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
US-09-598-982C-26

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Query Match          98.7%; Score 725.4; DB 1; Length 771;
Best Local Similarity 99.2%; Pred. No. 0.058;
Matches 729; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
Qy      |||
1 ATCGTGGGGGTCAAGAGGCCCCCAAGAGTGGCCCTGCAAGGTGAGCCCTGAGAGTGC 60
Db      |||
19 ATCGTGGGGGTCAAGAGGCCCCCAAGAGTGGCCCTGCAAGGTGAGCCCTGAGAGTGC 78
Qy      |||
61 CACGGCCCATCTGATGATGATCTTTCGGGGGGCTCCCTCATGCCCGAGTGGTCTG 120
Db      |||
79 CACGGCCCATCTGATGATGATCTTTCGGGGGGCTCCCTCATGCCCGAGTGGTCTG 138
Qy      |||
121 ACCGCAAGCACTGGTGGAGCCGGACGTCAGAGATCTGGCCCTCAGGGTGAACCTG 180
Db      |||
139 ACCGCAAGCACTGGTGGAGCCGGACGTCAGAGATCTGGCCCTCAGGGTGAACCTG 198
Qy      |||
181 CCGGAGCAAGCACTGCTACTACAGAGCAAGCTGCTCCCGGTCAAGATCATCTGTGAC 240
Db      |||
199 CCGGAGCAAGCACTGCTACTACAGAGCAAGCTGCTCCCGGTCAAGATCATCTGTGAC 258
Qy      |||
241 CCAAGTTTCTACACCGCCCAAGATCGAGGGGAGATGAGCCCTGTGAGAGTGGAGCCG 300
Db      |||
259 CCAAGTTTCTACACCGCCCAAGATCGAGGGGAGATGAGCCCTGTGAGAGTGGAGCCG 318
Qy      |||
301 GTGAAGGTTCTCAAGCCAGCCAGCAAGCTGACCCCTGCTCAGAGACTTTCCCC 360
Db      |||
319 GTGAAGGTTCTCAAGCCAGCCAGCAAGCTGACCCCTGCTCAGAGACTTTCCCC 378
Qy      |||
361 CCGGGATGCGGTGTGAGTCACTGGCTGGGGGAGATGAGAGCAATGATGAGCCCTCCA 420
Db      |||
379 CCGGGATGCGGTGTGAGTCACTGGCTGGGGGAGATGAGAGCAATGATGAGCCCTCCA 438

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Qy      |||
421 CCGCATTTCTCTGAAAGAGTGAAGTCCCCATTAATGAAAACCAAGATTTGTGACCGA 480
Db      |||
439 CCGCATTTCTCTGAAAGAGTGAAGTCCCCATTAATGAAAACCAAGATTTGTGACCGA 498
Qy      |||
481 AAATPACCACTTTGGCCCTTACACGGAGAGCAAGCTCCGATGTCCTGGAGCAACTGCTG 540
Db      |||
499 AAATPACCACTTTGGCCCTTACACGGAGAGCAAGCTCCGATGTCCTGGAGCAACTGCTG 558
Qy      |||
541 TGTGCGGGAAACCCGGAGGAGTCAATGCCAGGCGCATCCCGAGGGCCCTGTGTGC 600
Db      |||
559 TGTGCGGGAAACCCGGAGGAGTCAATGCCAGGAGCGCCCGGAGCCACTGGTGTGC 618
Qy      |||
601 AAGTGAATGGACCTGGCTGCAAGCCGGCGTGTGATGAGTGGGGCGAGGGCTGTGCCAG 660
Db      |||
619 AAGTGAATGGACCTGGCTGCAAGCCGGCGTGTGATGAGTGGGGCGAGGGCTGTGCCAG 678
Qy      |||
661 CCCAACCGGCTGGGACTGATCAACCCGCTGACCTACTACTTGGATGATGCCACTAT 720
Db      |||
679 CCCAACCGGCTGGGACTGATCAACCCGCTGACCTACTACTTGGATGATGCCACTAT 738
Qy      |||
721 GTCCCCAAAAGCCG 735
Db      |||
739 GTCCCCAAAAGCCG 753

```

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RESULT 9
US-09-598-982C-40
; Sequence 40, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Nileş, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; PRIORITY FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 40
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
US-09-598-982C-40

```

```

Query Match          98.5%; Score 723.8; DB 1; Length 771;
Best Local Similarity 99.0%; Pred. No. 0.058;
Matches 728; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
Qy      |||
1 ATCGTGGGGGTCAAGAGGCCCCCAAGAGTGGCCCTGCAAGGTGAGCCCTGAGAGTGC 60
Db      |||
19 ATCGTGGGGGTCAAGAGGCCCCCAAGAGTGGCCCTGCAAGGTGAGCCCTGAGAGTGC 78
Qy      |||
61 CACGGCCCATCTGATGATGATCTTTCGGGGGGCTCCCTCATGCCCGAGTGGTCTG 120
Db      |||
79 CACGGCCCATCTGATGATGATCTTTCGGGGGGCTCCCTCATGCCCGAGTGGTCTG 138
Qy      |||
121 ACCGCAAGCACTGGTGGAGCCGGACGTCAGAGATCTGGCCCTCAGGGTGAACCTG 180
Db      |||
139 ACCGCAAGCACTGGTGGAGCCGGACGTCAGAGATCTGGCCCTCAGGGTGAACCTG 198
Qy      |||
181 CCGGAGCAAGCACTGCTACTACAGAGCAAGCTGCTCCCGGTCAAGATCATCTGTGAC 240
Db      |||
199 CCGGAGCAAGCACTGCTACTACAGAGCAAGCTGCTCCCGGTCAAGATCATCTGTGAC 258
Qy      |||
241 CCAAGTTTCTACACCGCCCAAGATCGAGGGGAGATGAGCCCTGTGAGAGTGGAGCCG 300
Db      |||
259 CCAAGTTTCTACACCGCCCAAGATCGAGGGGAGATGAGCCCTGTGAGAGTGGAGCCG 318

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OY 301 GTGAAGTCTCGAGCCAGTGTGACCGGTCACTCCCTGCTGAGAGACTTTCCCC 360  
 DB 319 GTGAAGTCTCGAGCCAGTGTGACCGGTCACTCCCTGCTGAGAGACTTTCCCC 378  
 OY 361 CCGGGAGATCCGTTGGGTGACATGCTGAGGGGCAATGATGAGAGGCTCCCA 420  
 DB 379 CCGGGAGATCCGTTGGGTGACATGCTGAGGGGCAATGATGAGAGGCTCCCA 438  
 OY 421 CCGGCAATTTCTCTGAGAGAGTGAAGGTCCCATTAATGAAAACAATTTGAGCCCA 480  
 DB 439 CCGGCAATTTCTCTGAGAGAGTGAAGGTCCCATTAATGAAAACAATTTGAGCCCA 498  
 OY 481 AAATACCACTTTGGGCTTACACCGGAGACGATGCTCCGATGAGAGACTGCTG 540  
 DB 499 AAATACCACTTTGGGCTTACACCGGAGACGATGCTCCGATGAGAGACTGCTG 558  
 OY 541 TGTGCGGGAAACACCCGGAGGGAATCATGACGAGGCGACTCCGAGAGGCGCTG 600  
 DB 559 TGTGCGGGAAACACCCGGAGGGAATCATGACGAGGCGACTCCGAGAGGCGCTG 618  
 OY 601 AAGGTGAATGGCACTGTGGCTGAGGCGGGCGTGTCAAGCTGAGGGGAGAGGCTG 660  
 DB 619 AAGGTGAATGGCACTGTGGCTGAGGCGGGCGTGTCAAGCTGAGGGGAGAGGCTG 678  
 OY 661 CCGAACCGGCTTGGCATCTACACCCGCTGACCTTACTTGGATGAGATCGACACTAT 720  
 DB 679 CCGAACCGGCTTGGCATCTACACCCGCTGACCTTACTTGGATGAGATCGACACTAT 738  
 OY 721 GTCCCAAAAAGCCG 735  
 DB 739 GTCCCAAAAAGCCG 753

RESULT 10  
 US-09-598-982C-42  
 ; Sequence 42, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffitt, Mark  
 ; APPLICANT: Haak-Frendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPPASES, ACTIVE SITE MUTANTS THEREOF,  
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; CURRENT FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; PRIOR FILING DATE: 1998-04-15  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 42  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 US-09-598-982C-42

Query Match 98.5%; Score 723.8; DB 1; Length 771;  
 Best Local Similarity 99.0%; Pred. No. 0.058; 7; Indels 0; Gaps 0;  
 Matches 728; Conservative 0; Mismatches 7; Indels 0; Gaps 0;  
 OY 1 ATGTGCGGGGTCAAGAGGCCCCCGAGAGCAAGTGGCCCTGAGAGTGAAGTCAAGTCA 60  
 DB 19 ATGTGCGGGGTCAAGAGGCCCCCGAGAGCAAGTGGCCCTGAGAGTGAAGTCAAGTCA 78  
 OY 61 CACGGCCCACTTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 120  
 DB 79 CACGGCCCACTTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 138  
 OY 121 ACCGAGCCGACTGCTGAGGAGCCGAGCTCAAGATCTGCGCCCTCAGGGTGAACATG 180

DB 139 ACCGAGCCGACTGCTGAGGAGCCGAGCTCAAGGATCTGGCCGCTCAGGGTGAACATG 198  
 OY 181 CCGGAGGAGCACTTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 240  
 DB 199 CCGGAGGAGCACTTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 258  
 OY 241 CCGGAGGAGCACTTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 300  
 DB 259 CCGGAGGAGCACTTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 318  
 OY 301 GTGAAGTCTCGAGCCAGTGTGACCGGTCACTCCCTGCTGAGAGACTTTCCCC 360  
 DB 319 GTGAAGTCTCGAGCCAGTGTGACCGGTCACTCCCTGCTGAGAGACTTTCCCC 378  
 OY 361 CCGGGAGATCCGTTGGGTGACATGCTGAGGGGCAATGATGAGAGGCTCCCA 420  
 DB 379 CCGGGAGATCCGTTGGGTGACATGCTGAGGGGCAATGATGAGAGGCTCCCA 438  
 OY 421 CCGGCAATTTCTCTGAGAGAGTGAAGGTCCCATTAATGAAAACAATTTGAGCCCA 480  
 DB 439 CCGGCAATTTCTCTGAGAGAGTGAAGGTCCCATTAATGAAAACAATTTGAGCCCA 498  
 OY 481 AAATACCACTTTGGGCTTACACCGGAGACGATGCTCCGATGAGAGACTGCTG 540  
 DB 499 AAATACCACTTTGGGCTTACACCGGAGACGATGCTCCGATGAGAGACTGCTG 558  
 OY 541 TGTGCGGGAAACACCCGGAGGGAATCATGACGAGGCGACTCCGAGAGGCGCTG 600  
 DB 559 TGTGCGGGAAACACCCGGAGGGAATCATGACGAGGCGACTCCGAGAGGCGCTG 618  
 OY 601 AAGGTGAATGGCACTGTGGCTGAGGCGGGCGTGTCAAGCTGAGGGGAGAGGCTG 660  
 DB 619 AAGGTGAATGGCACTGTGGCTGAGGCGGGCGTGTCAAGCTGAGGGGAGAGGCTG 678  
 OY 661 CCGAACCGGCTTGGCATCTACACCCGCTGACCTTACTTGGATGAGATCGACACTAT 720  
 DB 679 CCGAACCGGCTTGGCATCTACACCCGCTGACCTTACTTGGATGAGATCGACACTAT 738  
 OY 721 GTCCCAAAAAGCCG 735  
 DB 739 GTCCCAAAAAGCCG 753

RESULT 11  
 US-09-598-982C-20/c  
 ; Sequence 20, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffitt, Mark  
 ; APPLICANT: Haak-Frendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPPASES, ACTIVE SITE MUTANTS THEREOF,  
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; CURRENT FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; PRIOR FILING DATE: 1998-04-15  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 20  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 US-09-598-982C-20

Query Match 3.8%; Score 27.6; DB 1; Length 771;  
 Best Local Similarity 45.4%; Pred. No. 17;  
 Matches 99; Conservative 0; Mismatches 119; Indels 0; Gaps 0;  
 OY 31 AAGTGGCCCTGAGGAGGCTGAGAGTCAAGCCCACTTGTGAGATGATGATGATGATGATG 90

Db 266 AACTGTGGGTGACGATGATCCCTGACCCGGCAGAGCTGGTCTCTGTGATGAGAGTGC 207  
 QY 91 GGCTCCCTCATTCACACCCCGAGTGGGTGTCTGACCGCAGCCACTGCGTGGAGCCGGACGTC 150  
 Db 206 TGTCTCCCGAGATTGACACCTCGTAGGGGGGGCCGACATCTTTGACGTCGGTCCCAACGACGGCC 147  
 QY 151 AAGGATCTGGCCCGCTCATGGGTGCACTGGGGAGACACACTCTACTACTACGAGACGACG 210  
 Db 146 GCGGCGGTGACGCCACCTGAGGGGGTGAATGAGGGAGACCCCGCAGAAATGATCCAGTAT 87  
 QY 211 CTGCTGCGGTGACGAGATCATGTCGACCCCAAGTT 248  
 Db 86 GGGCGGTGACTCTCAGGCTCACCTGCCAGGGCCACTT 49

RESULT 12  
 US-09-598-982C-36/c  
 ; Sequence 36, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffitt, Mark  
 ; APPLICANT: Haak-Friendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASIS, ACTIVE SITE MUTANTS THEREOF,  
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; CURRENT FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; PRIOR FILING DATE: 1998-04-15  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 36  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 ; US-09-598-982C-36

Query Match 3.8%; Score 27.6; DB 1; Length 771;  
 Best Local Similarity 45.4%; Pred. No. 17; Indels 119; Gaps 0;  
 Matches 99; Conservative 0; Mismatches 119; Indels 0; Gaps 0;  
 QY 31 AAGTGGCCCTGGCAGGTGACCTGAGAGTCCACGGCCCACTGATGATGATCTGTCGGCGG 90  
 Db 266 AACTGTGGGTGACGATGATCCCTGACCCGGCAGAGCTGGTCTCTGTGATGAGAGTGC 207  
 QY 91 GGCTCCCTCATTCACACCCCGAGTGGGTGTCTGACCGCAGCCACTGCGTGGAGCCGGACGTC 150  
 Db 206 TGTCTCCCGAGATTGACACCTCGTAGGGGGGGCCGACATCTTTGACGTCGGTCCCAACGACGGCC 147  
 QY 151 AAGGATCTGGCCCGCTCATGGGTGCACTGGGGAGACACACTCTACTACTACGAGACGACG 210  
 Db 146 GCGGCGGTGACGCCACCTGAGGGGGTGAATGAGGGAGACCCCGCAGAAATGATCCAGTAT 87  
 QY 211 CTGCTGCGGTGACGAGATCATGTCGACCCCAAGTT 248  
 Db 86 GGGCGGTGACTCTCAGGCTCACCTGCCAGGGCCACTT 49

RESULT 13  
 US-09-598-982C-10/c  
 ; Sequence 10, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffitt, Mark  
 ; APPLICANT: Haak-Friendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASIS, ACTIVE SITE MUTANTS THEREOF,  
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C

; CURRENT FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; PRIOR FILING DATE: 1998-04-15  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 10  
 ; LENGTH: 735  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (1)..(735)  
 US-09-598-982C-10

Query Match 3.7%; Score 27.2; DB 1; Length 735;  
 Best Local Similarity 52.9%; Pred. No. 18;  
 Matches 100; Conservative 0; Mismatches 83; Indels 6; Gaps 2;  
 QY 268 GCGGACATCCGCTCTGAGAGTGGAGAGCCGGTGAAGTCTTCCAGCCAGTCCACACG 327  
 Db 453 GGGGACCTTTCACCTGCTTCAAGAGAAATGCGGTGGAGGGCCCTCATCATTTGTCACA-- 396  
 QY 328 GTCACTGCCCCCTGCTCAGAGACTTCCCGGGGATGCGGTGCTGGGTCACTGGC 387  
 Db 395 -TCGCCCAAGCAGTACAGCCAGCAGCGGATCCCGGGGGAAAGTCTTGAAGGAGGGG 337  
 QY 388 TGGGGCGA--TGTGAGAAATGATGAGCGCTCCACCGCATTTCTTGAAGCAGGTG 444  
 Db 336 CAGGGTGAACCTGTGAGCGTGGCTGAGACCTTCAACCGGCTTCTTCAAGCTCCAGCAGGGC 277  
 QY 445 AAGTCCCGC 453  
 Db 276 GATGTCCGC 268

RESULT 14  
 US-09-598-982C-8/c  
 ; Sequence 8, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffitt, Mark  
 ; APPLICANT: Haak-Friendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASIS, ACTIVE SITE MUTANTS THEREOF,  
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; CURRENT FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; PRIOR FILING DATE: 1998-04-15  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 8  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 US-09-598-982C-8

Query Match 3.7%; Score 27.2; DB 1; Length 771;  
 Best Local Similarity 52.9%; Pred. No. 17; Indels 83; Gaps 2;  
 Matches 100; Conservative 0; Mismatches 83; Indels 6; Gaps 2;  
 QY 268 GCGGACATCCGCTCTGAGAGTGGAGAGCCGGTGAAGTCTTCCAGCCAGTCCACACG 327  
 Db 471 GGGGACCTTTCACCTGCTTCAAGAGAAATGCGGTGGAGGGCCCTCATCATTTGTCACA-- 414  
 QY 328 GTCACTGCCCCCTGCTCAGAGACTTCCCGGGGATGCGGTGCTGGGTCACTGGC 387  
 Db 413 -TCGCCCAAGCAGTACAGCCAGCAGCGGATCCCGGGGGAAAGTCTTGAAGGAGGGG 355  
 QY 388 TGGGGCGA--TGTGAGAAATGATGAGCGCTCCACCGCATTTCTTGAAGCAGGTG 444



Db 354 CAGGGTGAACCGTGTGAGAGAGACCTTTCACCGGCTCCACAGCTCCAGGAGGCG 295  
 QY 445 AAGGTCCCG 453  
 Db 294 GATGTCCGC 286

RESULT 15

US-09-598-982C-24/c  
 ; Sequence 24, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffitt, Mark  
 ; APPLICANT: Haak-Frendescho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; PRIORITY FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 24  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 ; US-09-598-982C-24

Query Match 3.7%; Score 27.2; DB 1; Length 771;  
 Best Local Similarity 52.9%; Pred. No. 17;  
 Matches 100; Conservative 0; Mismatches 83; Indels 6; Gaps 2;

QY 268 GCGGACATCGCCCTGTGAGAGAGAGCCGGGAAAGTCTCCAGCAGCTCCACAGC 327  
 Db 471 GGGGACCTTCACTGCTTCAAGGAAATGGCGGTGGAGCGGCTCATATTGTCCACA-- 414  
 QY 328 GTCAACCTGCCCCCTGCTGAGAGAGACTTCCCGGGGAGATCCCGTGTGAGTCACTGGC 387  
 Db 413 -TCGCCCCAGCAGTGAACCCAGCAGGAGATCCCCGGGGGAAAGTCTCTGAGGCGAGGGGG 355  
 QY 388 TGGGGCGA--TGTGACAAATGATGAGCGCCTCCACCGCATTTCTCTGAAAGCAGGTG 444  
 Db 354 CAGGGTGAACCGTGTGAGAGAGACTTTCACCGGCTCCACAGCTCCAGGAGGCG 295  
 QY 445 AAGGTCCCG 453  
 Db 294 GATGTCCGC 286

RESULT 16

US-09-598-982C-26/c  
 ; Sequence 26, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffitt, Mark  
 ; APPLICANT: Haak-Frendescho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; PRIORITY FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 26  
 ; LENGTH: 771  
 ; TYPE: DNA

; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 ; US-09-598-982C-26

Query Match

US-09-598-982C-40/c  
 ; Sequence 40, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffitt, Mark  
 ; APPLICANT: Haak-Frendescho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; PRIORITY FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 40  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 ; US-09-598-982C-40

Query Match 3.5%; Score 25.6; DB 1; Length 771;  
 Best Local Similarity 52.4%; Pred. No. 17;  
 Matches 99; Conservative 0; Mismatches 84; Indels 6; Gaps 2;

QY 268 GCGGACATCGCCCTGTGAGAGAGAGCCGGGAAAGTCTCCAGCAGCTCCACAGC 327  
 Db 471 GGGGACCTTCACTGCTTCAAGGAAATGGCGGTGGAGCGGCTCATATTGTCCACA-- 414  
 QY 328 GTCAACCTGCCCCCTGCTGAGAGAGACTTCCCGGGGAGATCCCGTGTGAGTCACTGGC 387  
 Db 413 -TCGCCCCAGCAGTGAACCCAGCAGGAGATCCCCGGGGGAAAGTCTCTGAGGCGAGGGGG 355  
 QY 388 TGGGGCGA--TGTGACAAATGATGAGCGCCTCCACCGCATTTCTCTGAAAGCAGGTG 444  
 Db 354 CAGGGTGAACCGTGTGAGAGAGACTTTCACCGGCTCCACAGCTCCAGGAGGCG 295  
 QY 445 AAGGTCCCG 453  
 Db 294 GATGTCCGC 286

RESULT 18  
 US-09-598-982C-42/c  
 ; Sequence 42, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffitt, Mark  
 ; APPLICANT: Haak-Frendscho, Mary  
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; PRIOR FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 42  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 US-09-598-982C-42

Query Match 3.5%; Score 25.6; DB 1; Length 771;  
 Best Local Similarity 52.4%; Pred. No. 17;  
 Matches 99; Conservative 0; Mismatches 84; Indels 6; Gaps 2;

QY 268 GGGGACATGCGCCCTGTGGAGCGTGGAGGCGCGGTGAAGTCTCCAGCAGCCAGCAGCAG 327  
 DB 471 GGGGACCTTCACTGCTTTCAGAGAAATGAGCGGTGGAGAGCGCTCACTTGTCCACA-- 414  
 QY 328 GTCAACCCCTGCCCCCTCTCAAGAACCTTCCCCCGGGGATGCCGCTGTGGGTCACTGGC 387  
 DB 413 -TCGCCCAAGCCAGTACCCAGAGCCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAG 355  
 QY 388 TGGGGCGA---TGTGACAATGATGAGCGCGCTCCACCCGCACTTCTCTGAAAGCAGTGG 444  
 DB 354 CAGGGTGAACCGCTGTGACGCTGTGGAGACGTTCAACCCGCTCCAGCTCCAGCAGGCGC 295  
 QY 445 AAGGTCCCC 453  
 DB 294 GATGTCCGC 286

RESULT 19  
 US-09-598-982C-22/c  
 ; Sequence 22, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffitt, Mark  
 ; APPLICANT: Haak-Frendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; PRIOR FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 22  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 US-09-598-982C-22

Matches 94; Conservative 0; Mismatches 78; Indels 6; Gaps 2;

QY 268 GGGGACATGCGCCCTGTGGAGCGTGGAGGCGCGGTGAAGTCTCCAGCAGCCAGCAGCAG 327  
 DB 471 GGGGACCTTCACTGCTTTCAGAGAAATGAGCGGTGGAGAGCGCTCACTTGTCCACA-- 414  
 QY 328 GTCAACCCCTGCCCCCTCTCAAGAACCTTCCCCCGGGGATGCCGCTGTGGGTCACTGGC 387  
 DB 413 -TCGCCCAAGCCAGTACCCAGAGCCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAG 355  
 QY 388 TGGGGCGA---TGTGACAATGATGAGCGCGCTCCACCCGCACTTCTCTGAAAGCAGTGG 442  
 DB 354 CAGGGTGAACCGCTGTGACGCTGTGGAGACGTTCAACCCGCTCCAGCTCCAGCAGGCGC 297

RESULT 20  
 US-09-598-982C-38/c  
 ; Sequence 38, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffitt, Mark  
 ; APPLICANT: Haak-Frendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; PRIOR FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 38  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 US-09-598-982C-38

Query Match 3.1%; Score 22.8; DB 1; Length 771;  
 Best Local Similarity 44.0%; Pred. No. 17;  
 Matches 96; Conservative 0; Mismatches 122; Indels 0; Gaps 0;

QY 31 AAGTGGCCCTGCGAGGTGAGGCTTGAAGTCCAGCGCCCACTGAGTCACTTGTGGCGG 90  
 DB 266 AACTGTGGTGAACGATGATCCTGCTGACCGCAGCAGACTGATCCTGTGATGAGGTGC 207  
 QY 91 GGCTTCTGATCCACCCTCACTGAGTGGTGTGACCGCAGGCACTGTGTTGGAGCCGAGCGTC 150  
 DB 206 TGTCTCCCGCATGTTGACCCCTGAGGGCGCCAGATCTTGAACGTCCGTCGCCAGCAGTGC 147  
 QY 151 AAGATCTGGCGCCCTCACTGAGTGGTGAAGTGGGAGCAGCACTTACTACTACAGAGCCAG 210  
 DB 146 GCTGGGTGACAGCACCCTGAGGGGGTGTGATGAGGAGAGCCCGCAGAAATGATCCAGTAT 87  
 QY 211 CTGCTGCCGGTCAAGCAGGATCATGTGTGACCCACAGATT 248  
 DB 86 GGGCGGTGAACCTCAAGGCTCACTGACGGGCACTT 49

Search completed: August 26, 2005, 12:32:27  
 Job time : 4.68178 secs

GenCore version 5.1.6  
 Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model  
 Run on: August 26, 2005, 12:31:55 ; Search time 2.81314 seconds  
 (without alignments) 4.206 Million cell updates/sec

Title: US-09-598-982C-20  
 Perfect score: 771  
 Sequence: 1 gggccctcgaagaaagaat.....cgtgaagcggccgctcgt 771  
 Scoring table: IDENTITY NUC  
 Gapop 10.0, Gapext 0.5

Searched: 10 seqs, 7674 residues  
 Total number of hits satisfying chosen parameters: 20

Minimum DB seq length: 0  
 Maximum DB seq length: inf  
 Post-processing: Minimum Match 0%  
 Maximum Match 100%  
 Listing first 20 summaries

Database : US09598982C\_rev.seq:\*  
 Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	771	100.0	771	1	US-09-598-982C-20
2	769.4	99.8	771	1	US-09-598-982C-36
3	764.6	99.2	771	1	US-09-598-982C-8
4	761.4	98.8	771	1	US-09-598-982C-22
5	759.8	98.5	771	1	US-09-598-982C-38
6	755	97.9	771	1	US-09-598-982C-24
7	755	97.9	771	1	US-09-598-982C-26
8	753.4	97.7	771	1	US-09-598-982C-40
9	753.4	97.7	771	1	US-09-598-982C-42
10	728.6	94.5	735	1	US-09-598-982C-10
11	32.4	4.2	771	1	US-09-598-982C-20
12	32.4	4.2	771	1	US-09-598-982C-36
13	28.2	3.7	771	1	US-09-598-982C-8
14	28.2	3.7	771	1	US-09-598-982C-22
15	28.2	3.7	771	1	US-09-598-982C-24
16	28.2	3.7	771	1	US-09-598-982C-26
17	28.2	3.7	771	1	US-09-598-982C-38
18	28.2	3.7	771	1	US-09-598-982C-40
19	28.2	3.7	771	1	US-09-598-982C-42
20	27.6	3.6	735	1	US-09-598-982C-10

ALIGNMENTS

RESULT 1  
 US-09-598-982C-20  
 ; Sequence 20, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffei, Mark  
 ; APPLICANT: Haak-Frendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF.  
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; PRIOR FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; PRIOR FILING DATE: 1998-04-15  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 20  
 ; LENGTH: 771

TYPE: DNA  
 ORGANISM: Homo sapiens  
 FEATURE:  
 NAME/KEY: CDS  
 LOCATION: (7)..(753)  
 US-09-598-982C-20

Query Match 100.0%; Score 771; DB 1; Length 771;  
 Best Local Similarity 100.0%; Pred. No. 0.036;  
 Matches 771; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy	1	GGGCCCCCGAAGAAAGAAATGTCGGGGGTCAGGAGGCCCCCAAGAGAAATGGCCCTCG	60
Db	1	GGGCCCCCTCGAAGAAAGAAATGTCGGGGGTCAGGAGGCCCCCAAGAGAAATGGCCCTCG	60
Oy	61	CAGGTGAGCTGAGAGATCCAGGCTCACTGATGATGCACTTTCGGGGGCTCCCTCATC	120
Db	61	CAGGTGAGCTGAGAGATCCAGGCTCACTGATGATGCACTTTCGGGGGCTCCCTCATC	120
Oy	121	CACCCCGAGTGGGGTGGACCCGCGCGGCGTGGGGAGACCGGATCGAAGATCTGGCC	180
Db	121	CACCCCGAGTGGGGTGGACCCGCGCGGCGTGGGGAGACCGGATCGAAGATCTGGCC	180
Oy	181	GCCCTCAGGGTGCACCTGCGGAGCAGACCTCTACTACAGACCAAGCTGCTCCGGTTC	240
Db	181	GCCCTCAGGGTGCACCTGCGGAGCAGACCTCTACTACAGACCAAGCTGCTCCGGTTC	240
Oy	241	AGCAGATGATGTGTCACCCACAGTTCTACACCGCCCAATGGAGCGGATCGCCCTG	300
Db	241	AGCAGATGATGTGTCACCCACAGTTCTACACCGCCCAATGGAGCGGATCGCCCTG	300
Oy	301	CTGAGATGAGGAGGCGGGTGAAGTCTCCAGCCCAAGGTCACCGCCCTG	360
Db	301	CTGAGATGAGGAGGCGGGTGAAGTCTCCAGCCCAAGGTCACCGCCCTG	360
Oy	361	GCCCTCAGGAGCTTCCCCCGGGATGCGGTGCTGCTGCTGCTGGGGGATGTGGAC	420
Db	361	GCCCTCAGGAGCTTCCCCCGGGATGCGGTGCTGCTGCTGCTGGGGGATGTGGAC	420
Oy	421	AATGATGAGCGCCCTCCACCGCCATTTCTCTGAAGCAGGTGAAGGTCCCATTAATGAA	480
Db	421	AATGATGAGCGCCCTCCACCGCCATTTCTCTGAAGCAGGTGAAGGTCCCATTAATGAA	480
Oy	481	AACCAATTTGATGAGGAAATTAACCACTTGGGCGCTTACACGGAGACGAGTCCGATC	540
Db	481	AACCAATTTGATGAGGAAATTAACCACTTGGGCGCTTACACGGAGACGAGTCCGATC	540
Oy	541	GTCCGTGACGATGCTGTGTGCGGGAACAACCGGAGGACTGATGCGGAGACTCC	600
Db	541	GTCCGTGACGATGCTGTGTGCGGGAACAACCGGAGGACTGATGCGGAGACTCC	600
Oy	601	GGAAGGCGCCCTGTGTGCAAGTGAATGGCACTGGCTGAGGGGGGTGTGCTGAGCTGG	660
Db	601	GGAAGGCGCCCTGTGTGCAAGTGAATGGCACTGGCTGAGGGGGGTGTGCTGAGCTGG	660
Oy	661	GGGAGGGGCTGTGCGCCAGCCGAGCCGCTGGCACTGACCCGCTGCTACTACTGG	720
Db	661	GGGAGGGGCTGTGCGCCAGCCGAGCCGCTGGCACTGACCCGCTGCTACTACTGG	720
Oy	721	GACTGATCCACCACTATGTCCTCCAAAAGCCGTGAAGCCGCGCTGCTG	771
Db	721	GACTGATCCACCACTATGTCCTCCAAAAGCCGTGAAGCCGCGCTGCTG	771
Oy	721	GACTGATCCACCACTATGTCCTCCAAAAGCCGTGAAGCCGCGCTGCTG	771
Db	721	GACTGATCCACCACTATGTCCTCCAAAAGCCGTGAAGCCGCGCTGCTG	771

RESULT 2  
 US-09-598-982C-36  
 ; Sequence 36, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffei, Mark  
 ; APPLICANT: Haak-Frendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF.  
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME

```

FILE REFERENCE: 34506.104
CURRENT APPLICATION NUMBER: US/09/598,982C
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079,970
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 36
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (7)..(753)
US-09-598-982C-36

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Query Match          99.8%; Score 769.4; DB 1; Length 771;
Best Local Similarity 99.9%; Pred. No. 0.036f;
Matches 770; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

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OY 1 GGGCCCTCGAGAAAAGAAATCGTCGGGGGTCAAGAGGCCCCCGAGAGCAAGTGGCCCTGG 60
Db 1 GGGCCCTCGAGAAAAGAAATCGTCGGGGGTCAAGAGGCCCCCGAGAGCAAGTGGCCCTGG 60
OY 61 CAGGTGAGCTGAGAGTCCAGCGCCCACTGAGATGCACTTCTGCGGGGCTCCCTCATC 120
Db 61 CAGGTGAGCTGAGAGTCCAGCGCCCACTGAGATGCACTTCTGCGGGGCTCCCTCATC 120
OY 121 CACCCCAATGGGTGTGACCGCGGGGGTGTGCGGAGCCGAGATGCAAGATCTGGCC 180
Db 121 CACCCCAATGGGTGTGACCGCGGGGGTGTGCGGAGCCGAGATGCAAGATCTGGCC 180
OY 181 GCGCTCAGGGGTCAACTGCGGGAGAGCACTCTACTACAGAGCAAGTGTGCGGATC 240
Db 181 GCGCTCAGGGGTCAACTGCGGGAGAGCACTCTACTACAGAGCAAGTGTGCGGATC 240
OY 241 AGCAGGATCATGTCGACCCCAAGTTCATACCGCCCAAGTGTGAGAGCGGATCTGGCC 300
Db 241 AGCAGGATCATGTCGACCCCAAGTTCATACCGCCCAAGTGTGAGAGCGGATCTGGCC 300
OY 301 CTGGAGCTGAGAGAGCGGGTGAAGGTCTCAGCGACCTGACAGCGTCAACCGTCCCT 360
Db 301 CTGGAGCTGAGAGAGCGGGTGAAGGTCTCAGCGACCTGACAGCGTCAACCGTCCCT 360
OY 361 GCGCTCAGAGACCTTCCCGCGGGAGTCCGTCGTCGATCTGAGCGGCTGAGAGC 420
Db 361 GCGCTCAGAGACCTTCCCGCGGGAGTCCGTCGTCGATCTGAGCGGCTGAGAGC 420
OY 421 AATGATGAGCGCTCCCAACCGCATTTCTCTGAGAGAGTGAAGTCCCAATATGGA 480
Db 421 AATGATGAGCGCTCCCAACCGCATTTCTCTGAGAGAGTGAAGTCCCAATATGGA 480
OY 481 AACCACATTTGTGAGCAAAATACCACTTGGGGCTTACAGCGGAGAGCAAGTCCGCA 540
Db 481 AACCACATTTGTGAGCAAAATACCACTTGGGGCTTACAGCGGAGAGCAAGTCCGCA 540
OY 541 GTCCTGAGAGAGTGTGTGTGTCGGGAGAACCCCGAGAGGACTCATGCGAGAGCTCC 600
Db 541 GTCCTGAGAGAGTGTGTGTGTCGGGAGAACCCCGAGAGGACTCATGCGAGAGCTCC 600
OY 601 GGAAGGGCCCTGCTGTGTGCAAGGTGCACTGCTCAAGCGGCTGAGAGTGG 660
Db 601 GGAAGGGCCCTGCTGTGTGCAAGGTGCACTGCTCAAGCGGCTGAGAGTGG 660
OY 661 GGGAGGGGCTGTGTCAGCGCCAAACCGGCTGGAGTACACCGGTCTCACTACTT 720
Db 661 GGGAGGGGCTGTGTCAGCGCCAAACCGGCTGGAGTACACCGGTCTCACTACTT 720
OY 721 GACTGGATCCACCACTATGTCCTCCCAAAAAGCCGTGAAAGCGGCGCTGGT 771
Db 721 GACTGGATCCACCACTATGTCCTCCCAAAAAGCCGTGAAAGCGGCGCTGGT 771

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RESULT 3
US-09-598-982C-8
Sequence 8, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Matfite, Mark
APPLICANT: Haak-Frendsch, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSINS, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506.104
SOFTWARE: PatentIn version 3.3
CURRENT APPLICATION NUMBER: US/09/598,982C
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079,970
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 8
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (7)..(753)
US-09-598-982C-8

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Query Match          99.2%; Score 764.6; DB 1; Length 771;
Best Local Similarity 99.5%; Pred. No. 0.038f;
Matches 767; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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OY 1 GGGCCCTCGAGAAAAGAAATCGTCGGGGGTCAAGAGGCCCCCGAGAGCAAGTGGCCCTGG 60
Db 1 GGGCCCTCGAGAAAAGAAATCGTCGGGGGTCAAGAGGCCCCCGAGAGCAAGTGGCCCTGG 60
OY 61 CAGGTGAGCTGAGAGTCCAGCGCCCACTGAGATGCACTTCTGCGGGGCTCCCTCATC 120
Db 61 CAGGTGAGCTGAGAGTCCAGCGCCCACTGAGATGCACTTCTGCGGGGCTCCCTCATC 120
OY 121 CACCCCAATGGGTGTGACCGCGGGGGTGTGCGGAGCCGAGATGCAAGATCTGGCC 180
Db 121 CACCCCAATGGGTGTGACCGCGGGGGTGTGCGGAGCCGAGATGCAAGATCTGGCC 180
OY 181 GCGCTCAGGGGTCAACTGCGGGAGAGCACTCTACTACAGAGCAAGTGTGCGGATC 240
Db 181 GCGCTCAGGGGTCAACTGCGGGAGAGCACTCTACTACAGAGCAAGTGTGCGGATC 240
OY 241 AGCAGGATCATGTCGACCCCAAGTTCATACCGCCCAAGTGTGAGAGCGGATCTGGCC 300
Db 241 AGCAGGATCATGTCGACCCCAAGTTCATACCGCCCAAGTGTGAGAGCGGATCTGGCC 300
OY 301 CTGGAGCTGAGAGAGCGGGTGAAGGTCTCAGCGACCTGACAGCGTCAACCGTCCCT 360
Db 301 CTGGAGCTGAGAGAGCGGGTGAAGGTCTCAGCGACCTGACAGCGTCAACCGTCCCT 360
OY 361 GCGCTCAGAGACCTTCCCGCGGGAGTCCGTCGTCGATCTGAGCGGCTGAGAGC 420
Db 361 GCGCTCAGAGACCTTCCCGCGGGAGTCCGTCGTCGATCTGAGCGGCTGAGAGC 420
OY 421 AATGATGAGCGCTCCCAACCGCATTTCTCTGAGAGAGTGAAGTCCCAATATGGA 480
Db 421 AATGATGAGCGCTCCCAACCGCATTTCTCTGAGAGAGTGAAGTCCCAATATGGA 480
OY 481 AACCACATTTGTGAGCAAAATACCACTTGGGGCTTACAGCGGAGAGCAAGTCCGCA 540
Db 481 AACCACATTTGTGAGCAAAATACCACTTGGGGCTTACAGCGGAGAGCAAGTCCGCA 540
OY 541 GTCCTGAGAGAGTGTGTGTGTCGGGAGAACCCCGAGAGGACTCATGCGAGAGCTCC 600
Db 541 GTCCTGAGAGAGTGTGTGTGTCGGGAGAACCCCGAGAGGACTCATGCGAGAGCTCC 600
OY 601 GGAAGGGCCCTGCTGTGTGCAAGGTGCACTGCTCAAGCGGCTGAGAGTGG 660
Db 601 GGAAGGGCCCTGCTGTGTGCAAGGTGCACTGCTCAAGCGGCTGAGAGTGG 660

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OY 661 GCGGAGGCTGTGCCAGCCCAACCGGCTGGCATCTACACCCGTCGACTACTACTG 720  
 DB 661 GCGGAGGCTGTGCCAGCCCAACCGGCTGGCATCTACACCCGTCGACTACTACTG 720  
 OY 721 GACTGATCCACCACTATGTCTCCCAAAAAGCCGTGAAGCGCGCCGTGCT 771  
 DB 721 GACTGATCCACCACTATGTCTCCCAAAAAGCCGTGAAGCGCGCCGTGCT 771

RESULT 4

US-09-598-982C-22  
 ; Sequence 22, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffett, Mark  
 ; APPLICANT: Haak-Frendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSINS, ACTIVE SITE MUTANTS THEREOF,  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT FILING DATE: 2000-06-21  
 ; PRIORITY FILING DATE: 09/079,970  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 22  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 US-09-598-982C-22

Query Match 98.8%; Score 761.4; DB 1; Length 771;  
 Best Local Similarity 99.2%; Pred. No. 0.039; Indels 6; Gaps 0;  
 Matches 765; Conservative 0; Mismatches 6; Indels 6; Gaps 0;

OY 1 GGGCCCTCGAAGAAAAGATGTCGGGGTCAAGAGGCCCCAGAGCAAGTGGCCCTGG 60  
 DB 1 GGGCCCTCGAAGAAAAGATGTCGGGGTCAAGAGGCCCCAGAGCAAGTGGCCCTGG 60  
 OY 61 CAGGTGAGCTGAGAGTCCAGCGCCCATATCTGATGCACTTCTGGGGGCTCCCTCATC 120  
 DB 61 CAGGTGAGCTGAGAGTCCAGCGCCCATATCTGATGCACTTCTGGGGGCTCCCTCATC 120  
 OY 121 CACCCCAAGTGGGTCTGACCGCGCGCGCGTGGGACCGGACGTCAGAGATCTGGCC 180  
 DB 121 CACCCCAAGTGGGTCTGACCGCGCGCGCGTGGGACCGGACGTCAGAGATCTGGCC 180  
 OY 181 GCCCTCAGGGTGCACCTGGGGAGGACGACCTCTACACAGACCAAGTCTGGCGGTG 240  
 DB 181 GCCCTCAGGGTGCACCTGGGGAGGACGACCTCTACACAGACCAAGTCTGGCGGTG 240  
 OY 241 AGCAGGATCATGTGTGACCCAGCTTCTACACCGCCAGATCGAGCGGACATGGCCCTG 300  
 DB 241 AGCAGGATCATGTGTGACCCAGCTTCTACACCGCCAGATCGAGCGGACATGGCCCTG 300  
 OY 301 CTGAGCTGAGAGACCGGTGAAGGTCTCAGCCAGCTTCCACCGATCCTTGGCCCT 360  
 DB 301 CTGAGCTGAGAGACCGGTGAAGGTCTCAGCCAGCTTCCACCGATCCTTGGCCCT 360  
 OY 361 GCCCTGAGAGACCTTCCCGGGAGATCGCGTGGGTCACTGGTGGGGGATGTGGAC 420  
 DB 361 GCCCTGAGAGACCTTCCCGGGAGATCGCGTGGGTCACTGGTGGGGGATGTGGAC 420  
 OY 421 AATGATGAGCGGCTCCCAACCGCATTTCTCTGAAGCAGGTGAAGTCCCAATATGGA 480  
 DB 421 AATGATGAGCGGCTCCCAACCGCATTTCTCTGAAGCAGGTGAAGTCCCAATATGGA 480  
 OY 481 AACCAATTTGTGACGCAAAATATACACTTGGCGCTTACACGGGAGACGATCGGCATC 540  
 DB 481 AACCAATTTGTGACGCAAAATATACACTTGGCGCTTACACGGGAGACGATCGGCATC 540

OY 541 GTCCGTGACACATGTGTGTGCCGGAACAACCCGAGAGGACTCATGCGAGGACTCC 600  
 DB 541 GTCCGTGACACATGTGTGTGCCGGAACAACCCGAGAGGACTCATGCGAGGACTCC 600  
 OY 601 GAGAGGCCCCGTGTGTGTCAGAGTGAATGCACTGGCTGCAAGCGCGGTGTGACTGG 660  
 DB 601 GAGAGGCCCCGTGTGTGTCAGAGTGAATGCACTGGCTGCAAGCGCGGTGTGACTGG 660  
 OY 661 GCGGAGGCTGTGTGCCAGCCCAACCGGCTGGCATCTACACCCGTCACCTACTACTG 720  
 DB 661 GCGGAGGCTGTGTGCCAGCCCAACCGGCTGGCATCTACACCCGTCACCTACTACTG 720  
 OY 721 GACTGATCCACCACTATGTCTCCCAAAAAGCCGTGAAGCGCGCCGTGCT 771  
 DB 721 GACTGATCCACCACTATGTCTCCCAAAAAGCCGTGAAGCGCGCCGTGCT 771

RESULT 5

US-09-598-982C-38  
 ; Sequence 38, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffett, Mark  
 ; APPLICANT: Haak-Frendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSINS, ACTIVE SITE MUTANTS THEREOF,  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT FILING DATE: 2000-06-21  
 ; PRIORITY FILING DATE: 09/079,970  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 38  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 US-09-598-982C-38

Query Match 98.5%; Score 759.8; DB 1; Length 771;  
 Best Local Similarity 99.1%; Pred. No. 0.04; Indels 7; Gaps 0;  
 Matches 764; Conservative 0; Mismatches 7; Indels 7; Gaps 0;

OY 1 GGGCCCTCGAAGAAAAGATGTCGGGGTCAAGAGGCCCCAGAGCAAGTGGCCCTGG 60  
 DB 1 GGGCCCTCGAAGAAAAGATGTCGGGGTCAAGAGGCCCCAGAGCAAGTGGCCCTGG 60  
 OY 61 CAGGTGAGCTGAGAGTCCAGCGCCCATATCTGATGCACTTCTGGGGGCTCCCTCATC 120  
 DB 61 CAGGTGAGCTGAGAGTCCAGCGCCCATATCTGATGCACTTCTGGGGGCTCCCTCATC 120  
 OY 121 CACCCCAAGTGGGTCTGACCGCGCGCGTGGGACCGGACGTCAGAGATCTGGCC 180  
 DB 121 CACCCCAAGTGGGTCTGACCGCGCGCGTGGGACCGGACGTCAGAGATCTGGCC 180  
 OY 181 GCCCTCAGGGTGCACCTGGGGAGGACGACCTCTACACAGACCAAGTCTGGCGGTG 240  
 DB 181 GCCCTCAGGGTGCACCTGGGGAGGACGACCTCTACACAGACCAAGTCTGGCGGTG 240  
 OY 241 AGCAGGATCATGTGTGACCCAGCTTCTACACCGCCAGATCGAGCGGACATGGCCCTG 300  
 DB 241 AGCAGGATCATGTGTGACCCAGCTTCTACACCGCCAGATCGAGCGGACATGGCCCTG 300  
 OY 301 CTGAGCTGAGAGACCGGTGAAGGTCTCAGCCAGCTTCCACCGATCCTTGGCCCT 360  
 DB 301 CTGAGCTGAGAGACCGGTGAAGGTCTCAGCCAGCTTCCACCGATCCTTGGCCCT 360  
 OY 361 GCCCTGAGAGACCTTCCCGGGAGATCGCGTGGGTCACTGGTGGGGGATGTGGAC 420  
 DB 361 GCCCTGAGAGACCTTCCCGGGAGATCGCGTGGGTCACTGGTGGGGGATGTGGAC 420

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Db 361 GCCTCAGAGACCTTCCCGGGGATGCCGTGCTGGTCACTGGCTGGGGCGAATGTGCAC 420
Qy 421 AATGATGAGCGCTCCCAACCCCAATTTCTCTGAAGCAGATGAAGTCCCAATAATGAA 480
Db 421 AATGATGAGCGCTCCCAACCCCAATTTCTCTGAAGCAGATGAAGTCCCAATAATGAA 480
Qy 481 AACCAATTTGTGACGCAAAATACACCTTGGCGCTTACACGGGAGACGATCCGGATC 540
Db 481 AACCAATTTGTGACGCAAAATACACCTTGGCGCTTACACGGGAGACGATCCGGATC 540
Qy 541 GTCCTGAGACGATGCTGTGTGCGGGGAAACACCCGAGGAGACTCATMGCCAGGGCCGAC 600
Db 541 GTCCTGAGACGATGCTGTGTGCGGGGAAACACCCGAGGAGACTCATMGCCAGGGCCGAC 600
Qy 601 GGAGGGCCCTGTGTGCAAGGTAATGGCACTGGCTGACGGCGGGCGTGTGACTGCTGG 660
Db 601 GGAGGGCCCTGTGTGCAAGGTAATGGCACTGGCTGACGGCGGGCGTGTGACTGCTGG 660
Qy 661 GGCGAGGGCTGTGCGCCAGCCCAACCGGCTGTGCATCTACACCCGCTGACTTCTTG 720
Db 661 GGCGAGGGCTGTGCGCCAGCCCAACCGGCTGTGCATCTACACCCGCTGACTTCTTG 720
Qy 721 GACTGATCCACCACTATGTCCCGAAAAGCCGTGAAGGGCCGCGCTGT 771
Db 721 GACTGATCCACCACTATGTCCCGAAAAGCCGTGAAGGGCCGCGCTGT 771

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RESULT 6
US-09-598-982C-24
Sequence 24, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSINS, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506.104
CURRENT APPLICATION NUMBER: US/09/598,982C
PRIOR FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079,970
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 24
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (7)..(753)
US-09-598-982C-24

```

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Query Match 97.9%; Score 755; DB 1; Length 771;
Best Local Similarity 98.7%; Pred. No. 0.042;
Matches 761; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

```

```

Qy 1 GGGCCCCCTCGAAGAAAAGAAATCTGGGGGTCAAGAGGCCCCCGAGAGCAAGTGGCCCTGG 60
Db 1 GGGCCCCCTCGAAGAAAAGAAATCTGGGGGTCAAGAGGCCCCCGAGAGCAAGTGGCCCTGG 60
Qy 61 CAGGTGAGCCTGAGAGTCCACCGGCCAATCTGGATCACTTTCGCGGGGCTCCCTCATC 120
Db 61 CAGGTGAGCCTGAGAGTCCACCGGCCAATCTGGATCACTTTCGCGGGGCTCCCTCATC 120
Qy 121 CACCCCAAGTGGTGTGACCGCGGGGGTGTGTGGACCCGGAACGTCAAGATCTGGGCC 180
Db 121 CACCCCAAGTGGTGTGACCGCGGGGGTGTGTGGACCCGGAACGTCAAGATCTGGGCC 180
Qy 181 GGCCTCAGGGGTGAACTGGGGGAGCAGCACTTACTACCAAGGACAGCTGCTGCCGATC 240
Db 181 GGCCTCAGGGGTGAACTGGGGGAGCAGCACTTACTACCAAGGACAGCTGCTGCCGATC 240
Qy 241 AGCAGGATCATCTGTGACCCACAGTTCATACCGCCCAAGTCCGAGCGGACATCGCCCTG 300

```

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Db 241 AGCAGGATCATCTGTGACCCACAGTTCATACCGCCCAAGTCCGAGCGGACATCGCCCTG 300
Qy 301 CTGAGCTGAGAGAGCCGGTGAAGTCTCCAGCCAGTCCACACGGTCAACCCCTGCCCT 360
Db 301 CTGAGCTGAGAGAGCCGGTGAAGTCTCCAGCCAGTCCACACGGTCAACCCCTGCCCT 360
Qy 361 GCCTCAGAGACCTTCCCGGGGATGCGCTGTGGTCACTGGCTGGGGCGATGTGAC 420
Db 361 GCCTCAGAGACCTTCCCGGGGATGCGCTGTGGTCACTGGCTGGGGCGATGTGAC 420
Qy 421 AATGATGAGCGCTCCCAACCCCAATTTCTCTGAAGCAGATGAAGTCCCAATAATGAA 480
Db 421 AATGATGAGCGCTCCCAACCCCAATTTCTCTGAAGCAGATGAAGTCCCAATAATGAA 480
Qy 481 AACCAATTTGTGACGCAAAATACACCTTGGCGCTTACACGGGAGACGATCCGGATC 540
Db 481 AACCAATTTGTGACGCAAAATACACCTTGGCGCTTACACGGGAGACGATCCGGATC 540
Qy 541 GTCCTGAGACGATGCTGTGTGCGGGGAAACACCCGAGGAGACTCATMGCCAGGGCCGAC 600
Db 541 GTCCTGAGACGATGCTGTGTGCGGGGAAACACCCGAGGAGACTCATMGCCAGGGCCGAC 600
Qy 601 GGAGGGCCCTGTGTGCAAGGTAATGGCACTGGCTGACGGCGGGCGTGTGACTGCTGG 660
Db 601 GGAGGGCCCTGTGTGCAAGGTAATGGCACTGGCTGACGGCGGGCGTGTGACTGCTGG 660
Qy 661 GGCGAGGGCTGTGCGCCAGCCCAACCGGCTGTGCATCTACACCCGCTGACTTCTTG 720
Db 661 GGCGAGGGCTGTGCGCCAGCCCAACCGGCTGTGCATCTACACCCGCTGACTTCTTG 720
Qy 721 GACTGATCCACCACTATGTCCCGAAAAGCCGTGAAGGGCCGCGCTGT 771
Db 721 GACTGATCCACCACTATGTCCCGAAAAGCCGTGAAGGGCCGCGCTGT 771

```

```

RESULT 7
US-09-598-982C-26
Sequence 26, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSINS, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506.104
CURRENT APPLICATION NUMBER: US/09/598,982C
PRIOR FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079,970
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 26
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (7)..(753)
US-09-598-982C-26

```

```

Query Match 97.9%; Score 755; DB 1; Length 771;
Best Local Similarity 98.7%; Pred. No. 0.042;
Matches 761; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

```

```

Qy 1 GGGCCCCCTCGAAGAAAAGAAATCTGGGGGTCAAGAGGCCCCCGAGAGCAAGTGGCCCTGG 60
Db 1 GGGCCCCCTCGAAGAAAAGAAATCTGGGGGTCAAGAGGCCCCCGAGAGCAAGTGGCCCTGG 60
Qy 61 CAGGTGAGCCTGAGAGTCCACCGGCCAATCTGGATCACTTTCGCGGGGCTCCCTCATC 120
Db 61 CAGGTGAGCCTGAGAGTCCACCGGCCAATCTGGATCACTTTCGCGGGGCTCCCTCATC 120

```

```

OY 121 CACCCCAAGTGGGTCTGACCGCCGCGGCTGTGGGACCGGACGTCAGAGTCTGGCC 180
DB 121 CACCCCAAGTGGGTCTGACCGCCGCGGCTGTGGGACCGGACGTCAGAGTCTGGCC 180
OY 181 GCCCTCAGGGGTCAACTGCGGGAGGACGACCTCTACTACAGAGCAAGTCTGGCCGCTC 240
DB 181 GCCCTCAGGGGTCAACTGCGGGAGGACGACCTCTACTACAGAGCAAGTCTGGCCGCTC 240
OY 241 AGCAGAGATCATGTGTGACCCACAGTTTCTACAGCCGCGAGATGAGGACGATGCGCCCTG 300
DB 241 AGCAGAGATCATGTGTGACCCACAGTTTCTACAGCCGCGAGATGAGGACGATGCGCCCTG 300
OY 301 CTGAGAGCTGAGAGAGCCGGTGAAGGTCTCAGCCACAGTCACAGGTCACCTTGGCCCT 360
DB 301 CTGAGAGCTGAGAGAGCCGGTGAAGGTCTCAGCCACAGTCACAGGTCACCTTGGCCCT 360
OY 361 GCGTCAAGAGACCTTCCCGCGGGAGATGCCGCTGTGGGTCACTGGCTGGGGCGATGTGGAC 420
DB 361 GCGTCAAGAGACCTTCCCGCGGGAGATGCCGCTGTGGGTCACTGGCTGGGGCGATGTGGAC 420
OY 421 AATGATGAGGGCTCCACCGGCAATTTCTGTGAAGCAGAGTGAAGTCCCAATATGGAA 480
DB 421 AATGATGAGGGCTCCACCGGCAATTTCTGTGAAGCAGAGTGAAGTCCCAATATGGAA 480
OY 481 AACCAATTTTGTGACGCAAAATATACCACTTGGCGCTACACGGAGAGACGATCCGCAATC 540
DB 481 AACCAATTTTGTGACGCAAAATATACCACTTGGCGCTACACGGAGAGACGATCCGCAATC 540
OY 541 GTCCGTGACGACATGTGTGTGTGCGGGGAAACACCCGAGAGGAACTCATGCGGCGCAATCC 600
DB 541 GTCCGTGACGACATGTGTGTGTGCGGGGAAACACCCGAGAGGAACTCATGCGGCGCAATCC 600
OY 601 GGAGAGGGCCCTGTGTGTGCAAGGTGAATGACCTGTGCAAGGCGGCTGTGCAAGGCTGG 660
DB 601 GGAGAGGGCCCTGTGTGTGCAAGGTGAATGACCTGTGCAAGGCGGCTGTGCAAGGCTGG 660
OY 661 GGCGAGGGCTGTGTGTGCAAGGCTGAATGACCTGTGCAAGGCGGCTGTGCAAGGCTGG 720
DB 661 GGCGAGGGCTGTGTGTGCAAGGCTGAATGACCTGTGCAAGGCGGCTGTGCAAGGCTGG 720
OY 721 GACTGAGATCCACCACTAATGTCCCAAAAAGCCGTGAAAGCGGCGCGCTGT 771
DB 721 GACTGAGATCCACCACTAATGTCCCAAAAAGCCGTGAAAGCGGCGCGCTGT 771

```

RESULT 8  
US-09-982C-40  
; Sequence 40, Application US/09598982C  
; GENERAL INFORMATION:  
; APPLICANT: Niles, Andrew  
; APPLICANT: Maffitt, Mark  
; APPLICANT: Haak-Frendscho, Mary  
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPASINS, ACTIVE SITE MUTANTS THEREOF,  
; FILE REFERENCE: 34506.104  
; CURRENT APPLICATION NUMBER: US/09/598,982C  
; PRIORITY FILING DATE: 2000-06-21  
; PRIOR APPLICATION NUMBER: 09/079,970  
; NUMBER OF SEQ ID NOS: 52  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 40  
; LENGTH: 771  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (7)..(753)  
; US-09-598-982C-40

Query Match 97.7%; Score 753.4; DB 1; Length 771;  
Best Local Similarity 98.6%; Pred. No. 0.042;  
Matches 760; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

```

OY 1 GGGCCCTCGAAGAAAAGATGTCGAGGAGTCAAGAGGCCCCCAAGAGCAAGTGGCCCTGG 60
DB 1 GGGCCCTCGAAGAAAAGATGTCGAGGAGTCAAGAGGCCCCCAAGAGCAAGTGGCCCTGG 60
OY 61 CAGGTGACCTGAGAGTCCAGGCTCATCTGATGCACTTGTGCGGGGGTCCCTCATC 120
DB 61 CAGGTGACCTGAGAGTCCAGGCTCATCTGATGCACTTGTGCGGGGGTCCCTCATC 120
OY 121 CACCCCAAGTGGGTCTGACCGCCGCGGCTGTGGGACCGGACGTCAGAGTCTGGCC 180
DB 121 CACCCCAAGTGGGTCTGACCGCCGCGGCTGTGGGACCGGACGTCAGAGTCTGGCC 180
OY 181 GCCCTCAGGGGTCAACTGCGGGAGGACGACCTCTACTACAGAGCAAGTCTGGCCGCTC 240
DB 181 GCCCTCAGGGGTCAACTGCGGGAGGACGACCTCTACTACAGAGCAAGTCTGGCCGCTC 240
OY 241 AGCAGAGATCATGTGTGACCCACAGTTTCTACAGCCGCGAGATGAGGACGATGCGCCCTG 300
DB 241 AGCAGAGATCATGTGTGACCCACAGTTTCTACAGCCGCGAGATGAGGACGATGCGCCCTG 300
OY 301 CTGAGAGCTGAGAGAGCCGGTGAAGGTCTCAGCCACAGTCACAGGTCACCTTGGCCCT 360
DB 301 CTGAGAGCTGAGAGAGCCGGTGAAGGTCTCAGCCACAGTCACAGGTCACCTTGGCCCT 360
OY 361 GCGTCAAGAGACCTTCCCGCGGGAGATGCCGCTGTGGGTCACTGGCTGGGGCGATGTGGAC 420
DB 361 GCGTCAAGAGACCTTCCCGCGGGAGATGCCGCTGTGGGTCACTGGCTGGGGCGATGTGGAC 420
OY 421 AATGATGAGGGCTCCACCGGCAATTTCTGTGAAGCAGAGTGAAGTCCCAATATGGAA 480
DB 421 AATGATGAGGGCTCCACCGGCAATTTCTGTGAAGCAGAGTGAAGTCCCAATATGGAA 480
OY 481 AACCAATTTTGTGACGCAAAATATACCACTTGGCGCTACACGGAGAGACGATCCGCAATC 540
DB 481 AACCAATTTTGTGACGCAAAATATACCACTTGGCGCTACACGGAGAGACGATCCGCAATC 540
OY 541 GTCCGTGACGACATGTGTGTGTGCGGGGAAACACCCGAGAGGAACTCATGCGGCGCAATCC 600
DB 541 GTCCGTGACGACATGTGTGTGTGCGGGGAAACACCCGAGAGGAACTCATGCGGCGCAATCC 600
OY 601 GGAGAGGGCCCTGTGTGTGCAAGGTGAATGACCTGTGCAAGGCGGCTGTGCAAGGCTGG 660
DB 601 GGAGAGGGCCCTGTGTGTGCAAGGTGAATGACCTGTGCAAGGCGGCTGTGCAAGGCTGG 660
OY 661 GGCGAGGGCTGTGTGTGCAAGGCTGAATGACCTGTGCAAGGCGGCTGTGCAAGGCTGG 720
DB 661 GGCGAGGGCTGTGTGTGCAAGGCTGAATGACCTGTGCAAGGCGGCTGTGCAAGGCTGG 720
OY 721 GACTGAGATCCACCACTAATGTCCCAAAAAGCCGTGAAAGCGGCGCGCTGT 771
DB 721 GACTGAGATCCACCACTAATGTCCCAAAAAGCCGTGAAAGCGGCGCGCTGT 771

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RESULT 9  
US-09-598-982C-42  
; Sequence 42, Application US/09598982C  
; GENERAL INFORMATION:  
; APPLICANT: Niles, Andrew  
; APPLICANT: Maffitt, Mark  
; APPLICANT: Haak-Frendscho, Mary  
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPASINS, ACTIVE SITE MUTANTS THEREOF,  
; FILE REFERENCE: 34506.104  
; CURRENT APPLICATION NUMBER: US/09/598,982C  
; PRIORITY FILING DATE: 2000-06-21  
; PRIOR APPLICATION NUMBER: 09/079,970  
; NUMBER OF SEQ ID NOS: 52  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 42  
; LENGTH: 771  
; TYPE: DNA

```

; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
US-09-598-982C-42

```

```

Query Match      97.7%; Score 753.4; DB 1; Length 771;
Best Local Similarity 98.6%; Pred. No. 0.042;
Matches 760; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

```

```

QY 1 GGGCCCCCTCGAAGAAAAGAAATCGTGGGGGGTCAAGAGAGCCGCCAGAGCAAGTGGCCCTGG 60
D 1 GGGCCCCCTCGAAGAAAAGAAATCGTGGGGGGTCAAGAGAGCCGCCAGAGCAAGTGGCCCTGG 60
QY 61 CAGGTGAGCCTGAGAGTCCACCGGCCATACTGAGTCACTTCTGCGGGGGCTCCCTCATC 120
D 61 CAGGTGAGCCTGAGAGTCCACCGGCCATACTGAGTCACTTCTGCGGGGGCTCCCTCATC 120
QY 121 CACCCCACTGAGTGTGACCCCGCGGGGGTGGTGGGACCCGAGCGTCAAGATCTGGCC 180
D 121 CACCCCACTGAGTGTGACCCCGCGGGGGTGGTGGGACCCGAGCGTCAAGATCTGGCC 180
QY 181 GCCCTCAGGGGTGCAACTGGGGGAGCAGCACTCTACTACAGGACCCAGCTGGCCGGTCC 240
D 181 GCCCTCAGGGGTGCAACTGGGGGAGCAGCACTCTACTACAGGACCCAGCTGGCCGGTCC 240
QY 241 AGCAGGATCATGCTGTCACCCCAAGTTCACACCGCCAGATCGAGCCGAGCAATCGCCCTG 300
D 241 AGCAGGATCATGCTGTCACCCCAAGTTCACACCGCCAGATCGAGCCGAGCAATCGCCCTG 300
QY 301 CTGAGAGTGTGAGAGGCGGGTGAAGGTCTCAGCAGTCAAGTCCACCGTCCCTGGCCCT 360
D 301 CTGAGAGTGTGAGAGGCGGGTGAAGGTCTCAGCAGTCAAGTCCACCGTCCCTGGCCCT 360
QY 361 GCCTCAGAGACTTCCCGCGGGGATGCCGTGCTGAGTCACTGCTGGGGGAGATGTGAGC 420
D 361 GCCTCAGAGACTTCCCGCGGGGATGCCGTGCTGAGTCACTGCTGGGGGAGATGTGAGC 420
QY 421 AATGATGAGCGCTCCACCGCCATTTCTCTGAAAGCAAGTGAAGTCCCAATATGAA 480
D 421 AATGATGAGCGCTCCACCGCCATTTCTCTGAAAGCAAGTGAAGTCCCAATATGAA 480
QY 481 AACCAATTTGAGAGCAAAATPACACTTGGGGCTTACAGCGGAGAGACGATCCGGCAGC 540
D 481 AACCAATTTGAGAGCAAAATPACACTTGGGGCTTACAGCGGAGAGACGATCCGGCAGC 540
QY 541 GTCCTGAGAGCACTGCTGTGTGCGCGGGAAACCCCGAGGAACTCATGCCAGGGCACTCC 600
D 541 GTCCTGAGAGCACTGCTGTGTGCGCGGGAAACCCCGAGGAACTCATGCCAGGGCACTCC 600
QY 601 GAGAGGCCCCCTGCTGTGCAAGTGAAGTCACTGGCTGCAAGCGGGCGTGTCAAGTGG 660
D 601 GAGAGGCCCCCTGCTGTGCAAGTGAAGTCACTGGCTGCAAGCGGGCGTGTCAAGTGG 660
QY 661 GGGAGAGGCTGTGCGCCAGCCCAACCGGCTGGAGTATACACCGTGTCACTACTACTTG 720
D 661 GGGAGAGGCTGTGCGCCAGCCCAACCGGCTGGAGTATACACCGTGTCACTACTACTTG 720
QY 721 GACTGGATCCACCACTATGTCCCAAAAAGCCGTGAAGCGGCGCGCTGTGT 771
D 721 GACTGGATCCACCACTATGTCCCAAAAAGCCGTGAAGCGGCGCGCTGTGT 771

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; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 10
; LENGTH: 735
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(735)
US-09-598-982C-10

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Query Match      94.5%; Score 728.6; DB 1; Length 735;
Best Local Similarity 99.5%; Pred. No. 0.056;
Matches 731; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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QY 19 ATCGTCGGGGGTCAAGAGGCCCCCGAGAGCAAGTGGCCCTGGCAGGTGAGCCTGAGAGTC 78
D 1 ATCGTCGGGGGTCAAGAGGCCCCCGAGAGCAAGTGGCCCTGGCAGGTGAGCCTGAGAGTC 78
QY 79 CACGGCCCATATCTGAGATGACTTCTGGGGGGGCTCCCTCATCCACCCCAAGTGGGGTGGT 138
D 79 CACGGCCCATATCTGAGATGACTTCTGGGGGGGCTCCCTCATCCACCCCAAGTGGGGTGGT 138
QY 120 CACGGCCCATATCTGAGATGACTTCTGGGGGGGCTCCCTCATCCACCCCAAGTGGGGTGGT 120
D 120 CACGGCCCATATCTGAGATGACTTCTGGGGGGGCTCCCTCATCCACCCCAAGTGGGGTGGT 120
QY 139 ACCGCGCGGGGTGCTGAGAGCCGAGCAGTCAAGATCTGAGCCCTCAGGGTGCACCTG 198
D 139 ACCGCGCGGGGTGCTGAGAGCCGAGCAGTCAAGATCTGAGCCCTCAGGGTGCACCTG 198
QY 180 ACCGCGCGGGGTGCTGAGAGCCGAGCAGTCAAGATCTGAGCCCTCAGGGTGCACCTG 180
D 180 ACCGCGCGGGGTGCTGAGAGCCGAGCAGTCAAGATCTGAGCCCTCAGGGTGCACCTG 180
QY 199 GGGAGAGCAGCACTCTTACTACAGAGCAAGTCTGCTGGCGGTGAGAGATGATGTGTGAC 258
D 199 GGGAGAGCAGCACTCTTACTACAGAGCAAGTCTGCTGGCGGTGAGAGATGATGTGTGAC 258
QY 240 GGGAGAGCAGCACTCTTACTACAGAGCAAGTCTGCTGGCGGTGAGAGATGATGTGTGAC 240
D 240 GGGAGAGCAGCACTCTTACTACAGAGCAAGTCTGCTGGCGGTGAGAGATGATGTGTGAC 240
QY 259 CCAAGATTTCTACACCGCCCAAGTCCGAGAGCAATGCGCCCTGCTGAGAGCTGAGAGCCG 318
D 259 CCAAGATTTCTACACCGCCCAAGTCCGAGAGCAATGCGCCCTGCTGAGAGCTGAGAGCCG 318
QY 318 CCAAGATTTCTACACCGCCCAAGTCCGAGAGCAATGCGCCCTGCTGAGAGCTGAGAGCCG 300
D 318 CCAAGATTTCTACACCGCCCAAGTCCGAGAGCAATGCGCCCTGCTGAGAGCTGAGAGCCG 300
QY 378 GAGAGGCTCTCCAGCCAGTCCAGCAGTCAACCTGCCCCCTGCTCAGAGACTTCCG 378
D 378 GAGAGGCTCTCCAGCCAGTCCAGCAGTCAACCTGCCCCCTGCTCAGAGACTTCCG 378
QY 379 CCGGGAGATGCGGTGTGAGTGAAGTCCCATATGAAACCAATTTGTGAGCGCA 420
D 379 CCGGGAGATGCGGTGTGAGTGAAGTCCCATATGAAACCAATTTGTGAGCGCA 420
QY 420 CCGGGAGATGCGGTGTGAGTGAAGTCCCATATGAAACCAATTTGTGAGCGCA 498
D 420 CCGGGAGATGCGGTGTGAGTGAAGTCCCATATGAAACCAATTTGTGAGCGCA 498
QY 498 AAATPACACTTGGGGCTTACAGCGGAGAGCAAGTCCCGCATGCTCCGAGCAGATGCTG 558
D 498 AAATPACACTTGGGGCTTACAGCGGAGAGCAAGTCCCGCATGCTCCGAGCAGATGCTG 558
QY 558 TGTGCGGGGAAACCCCGAGGAGCTCATGCGAGGGCACTCCCGAGAGGGCCCTCGTGTG 618
D 558 TGTGCGGGGAAACCCCGAGGAGCTCATGCGAGGGCACTCCCGAGAGGGCCCTCGTGTG 618
QY 618 TGTGCGGGGAAACCCCGAGGAGCTCATGCGAGGGCACTCCCGAGAGGGCCCTCGTGTG 600
D 618 TGTGCGGGGAAACCCCGAGGAGCTCATGCGAGGGCACTCCCGAGAGGGCCCTCGTGTG 600
QY 678 AAGGTGAATGAGCACTGCTGAGAGCGGGCGTGTGCACTGAGGGGAGAGGGCTGTGCGCAG 678
D 678 AAGGTGAATGAGCACTGCTGAGAGCGGGCGTGTGCACTGAGGGGAGAGGGCTGTGCGCAG 678
QY 738 CCAACCGGCTGGATCTACACCGCGTGTCACTACTACTACTACTACTACTACTACTACT 738
D 738 CCAACCGGCTGGATCTACACCGCGTGTCACTACTACTACTACTACTACTACTACTACT 738
QY 753 GTCGCCAAAAGCCG 753
D 753 GTCGCCAAAAGCCG 753

```

RESULT 11



US-09-598-982C-20/c  
 ; Sequence 20, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffitt, Mark  
 ; APPLICANT: Haak-Frendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPPASERS, ACTIVE SITE MUTANTS THEREOF,  
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; CURRENT FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; PRIOR FILING DATE: 1998-04-15  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 20  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 ; US-09-598-982C-20

Query Match 4.2%; Score 32.4; DB 1; Length 771;  
 Best Local Similarity 46.8%; Pred. No. 17;  
 Matches 102; Conservative 0; Mismatches 116; Indels 0; Gaps 0;

Qy 49 AAGTGGCCCTGGCAGGTTGAGGCTGAGAGTCCAGGCCCCAATPACTGANTGCACTTCTGCGGG 108  
 Db 266 AACTGTGGGTGACAGATGATCTCTGACCGGACAGCTGCTCTGTTAGTGTGAGGTTG 207  
 Qy 109 GGCCTCCCTCATCCACCCCAAGTGGTCTGACCCCGCGGGTGGTGGAGACCGGACGTC 168  
 Db 266 AACTGTGGGTGACAGATGATCTCTGACCGGACAGCTGCTCTGTTAGTGTGAGGTTG 207  
 Qy 206 TGCTCCCGCAGTTGACCCCTGAGGGGGCCAGATCTTGTACGTCCTGTCGCCAAGCAGCGC 147  
 Db 169 AAGGATCTGGCCCGCTTCAGGGTGCAACTGCGGGAGCAGCACTTCTACTACAGACCA 228  
 Qy 169 AAGGATCTGGCCCGCTTCAGGGTGCAACTGCGGGAGCAGCACTTCTACTACAGACCA 228  
 Db 146 GCGCGGGTCAACCCACTGCGGGTGTGATGAGGAGCCCGCCAGAGATGTCAGTCA 87  
 Qy 229 CTGCTGCGGTGACAGGATTCAGCGCCCACTACTGATGCACTTCTGCGGGGCTC 266  
 Db 86 GGGCCGTGACTCTCAGGCTCAGCTGCGCCAGGCGCACTT 49  
 RESULT 12  
 ; US-09-598-982C-36/c  
 ; Sequence 36, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffitt, Mark  
 ; APPLICANT: Haak-Frendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPPASERS, ACTIVE SITE MUTANTS THEREOF,  
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; CURRENT FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; PRIOR FILING DATE: 1998-04-15  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 36  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 ; US-09-598-982C-36

Qy 49 AAGTGGCCCTGGCAGGTTGAGGCTGAGAGTCCAGGCCCCAATPACTGANTGCACTTCTGCGGG 108  
 Db 266 AACTGTGGGTGACAGATGATCTCTGACCGGACAGCTGCTCTGTTAGTGTGAGGTTG 207  
 Qy 109 GGCCTCCCTCATCCACCCCAAGTGGTCTGACCCCGCGGGTGGTGGAGACCGGACGTC 168  
 Db 206 TGCTCCCGCAGTTGACCCCTGAGGGGGCCAGATCTTGTACGTCCTGTCGCCAAGCAGCGC 147  
 Qy 169 AAGGATCTGGCCCGCTTCAGGGTGCAACTGCGGGAGCAGCACTTCTACTACAGACCA 228  
 Db 146 GCGCGGGTCAACCCACTGCGGGTGTGATGAGGAGCCCGCCAGAGATGTCAGTCA 87  
 Qy 229 CTGCTGCGGTGACAGGATTCAGCGCCCACTACTGATGCACTTCTGCGGGGCTC 266  
 Db 86 GGGCCGTGACTCTCAGGCTCAGCTGCGCCAGGCGCACTT 49  
 RESULT 13  
 ; US-09-598-982C-8/c  
 ; Sequence 8, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffitt, Mark  
 ; APPLICANT: Haak-Frendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPPASERS, ACTIVE SITE MUTANTS THEREOF,  
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; CURRENT FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 8  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 ; US-09-598-982C-8

Query Match 3.7%; Score 28.2; DB 1; Length 771;  
 Best Local Similarity 53.1%; Pred. No. 17;  
 Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

Qy 1 GGGCCCTTCGAGAAAGATGTCGGGGTTCAGGAGGCCCCCAGAGCAAGTGGCCCTGG 60  
 Db 113 GAGCCCCCGGAGAGTGTGATCAGTATGGGCGGTGACTCTCAGGCTCAGCTGCAAGGGG 54  
 Qy 61 CAGTGAAGCTTGAAGATTCAGCGCCCACTACTGATGCACTTCTGCGGGGCTC 113  
 Db 53 CACTTGTCTCTGCGGGGCTCTGACCCCGCAGATTTCTTCTGAGGGGCCC 1  
 RESULT 14  
 ; US-09-598-982C-22/c  
 ; Sequence 22, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffitt, Mark  
 ; APPLICANT: Haak-Frendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPPASERS, ACTIVE SITE MUTANTS THEREOF,  
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; CURRENT FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; PRIOR FILING DATE: 1998-04-15  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 22

```

; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
US-09-598-982C-22

```

```

Query Match
Best Local Similarity 3.7%; Score 28.2; DB 1; Length 771;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

```

```

QY 1 GGGCCCCCTCGAGAAAAGATGTCGGGGGTGAGAGAGCCCGGAGCAAGTGGCCCTGG 60
DB 113 GAGCCCCCGGAGAAAGTGCATCCAGTAAAGGCGCTGAGACTCTCAAGGCTCAGCCCGGAGG 54
DB 53 CACTTGCTCTGGGGGCGCTCTGACCCCGAGCGATTCTTTCTCGAGGGGGCC 1

```

```

RESULT 15
US-09-598-982C-24/c
; Sequence 24, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 24
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
US-09-598-982C-24

```

```

Query Match
Best Local Similarity 3.7%; Score 28.2; DB 1; Length 771;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

```

```

QY 1 GGGCCCCCTCGAGAAAAGATGTCGGGGGTGAGAGAGCCCGGAGCAAGTGGCCCTGG 60
DB 113 GAGCCCCCGGAGAAAGTGCATCCAGTAAAGGCGCTGAGACTCTCAAGGCTCAGCCCGGAGG 54
QY 61 CAGGTGAGCCTGAGAGTCCACGGCCCACTAGATGCACTTCTGCGGGGGCTC 113
DB 53 CACTTGCTCTGGGGGCGCTCTGACCCCGAGCGATTCTTTCTCGAGGGGGCC 1

```

```

RESULT 16
US-09-598-982C-26/c
; Sequence 26, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15

```

```

; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 26
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
US-09-598-982C-26

```

```

Query Match
Best Local Similarity 3.7%; Score 28.2; DB 1; Length 771;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

```

```

QY 1 GGGCCCCCTCGAGAAAAGATGTCGGGGGTGAGAGAGCCCGGAGCAAGTGGCCCTGG 60
DB 113 GAGCCCCCGGAGAAAGTGCATCCAGTAAAGGCGCTGAGACTCTCAAGGCTCAGCCCGGAGG 54
DB 53 CACTTGCTCTGGGGGCGCTCTGACCCCGAGCGATTCTTTCTCGAGGGGGCC 1

```

```

RESULT 17
US-09-598-982C-38/c
; Sequence 38, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 38
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
US-09-598-982C-38

```

```

Query Match
Best Local Similarity 3.7%; Score 28.2; DB 1; Length 771;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

```

```

QY 1 GGGCCCCCTCGAGAAAAGATGTCGGGGGTGAGAGAGCCCGGAGCAAGTGGCCCTGG 60
DB 113 GAGCCCCCGGAGAAAGTGCATCCAGTAAAGGCGCTGAGACTCTCAAGGCTCAGCCCGGAGG 54
QY 61 CAGGTGAGCCTGAGAGTCCACGGCCCACTAGATGCACTTCTGCGGGGGCTC 113
DB 53 CACTTGCTCTGGGGGCGCTCTGACCCCGAGCGATTCTTTCTCGAGGGGGCC 1

```

```

RESULT 18
US-09-598-982C-40/c
; Sequence 40, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C

```

```

; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 40
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
US-09-598-982C-40

```

```

Query Match
Best Local Similarity 3.7%; Score 28.2; DB 1; Length 771;
Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

```

```

Qy 1 GGGCCCTCGAAGAAAGATCGTGGGGGTTCAGAGAGCCCGCAGAGCAAGTGGCCCTGG 60
Db 113 GAGCCCCCGCAGAGTGCATTCAGATGAGCCCGTGAATCTCAAGCTCACTGCGCAGGCG 54
Qy 61 CAGGTGAGCCTGAGAGTCCAGCGCCCATCTGATGCACTTCTGCGGGGCTC 113
Db 53 CACTTGCTCTGGGGGCTCTGAGCCCGCAGAGATTTCTTTCTCGAGGGGGCC 1

```

```

RESULT 19
US-09-598-42/c
; Sequence 42, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Miles, Andrew
; APPLICANT: Mafilt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 42
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
US-09-598-982C-42

```

```

Query Match
Best Local Similarity 3.7%; Score 28.2; DB 1; Length 771;
Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

```

```

Qy 1 GGGCCCTCGAAGAAAGATCGTGGGGGTTCAGAGAGCCCGCAGAGCAAGTGGCCCTGG 60
Db 113 GAGCCCCCGCAGAGTGCATTCAGATGAGCCCGTGAATCTCAAGCTCACTGCGCAGGCG 54
Qy 61 CAGGTGAGCCTGAGAGTCCAGCGCCCATCTGATGCACTTCTGCGGGGCTC 113
Db 53 CACTTGCTCTGGGGGCTCTGAGCCCGCAGAGATTTCTTTCTCGAGGGGGCC 1

```

```

RESULT 20
US-09-598-982C-10/c
; Sequence 10, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Miles, Andrew
; APPLICANT: Mafilt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,

```

```

; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 10
; LENGTH: 735
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(735)
US-09-598-982C-10

```

```

Query Match
Best Local Similarity 3.6%; Score 27.6; DB 1; Length 735;
Pred. No. 18;
Matches 99; Conservative 0; Mismatches 119; Indels 0; Gaps 0;

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Qy 49 AAGTGGCCCTG9CAGGTGAGGCTTGAAGTCCAGGCCCCATCTGAGTCACTTCTGCGGG 108
Db 248 AACTGTGGGTCCAGATGATCTGCTGACCCGACAGAGCTGCTGCTGATGAGGTGC 189
Qy 109 GGCCTCCATCCACCCCAAGTGTGCTGACCGCCGGGGGCTGGTGGACCCGAGCGTC 168
Db 188 TGCTCCCGCAGATGTCACCTTGAAGGCGCCAGATCTTGAATCTCGGTCACCGCATGTC 129
Qy 169 AAGATCTGGCCCGCCTGAGGCTGCAACTGCGGAGCAGACCTCTACTACAGAGCCAG 228
Db 128 GCTGGGTGACACACCACTGAGGAGTGAATGAGGAGGCCCGCAGAGTGCATCCAGTAT 69
Qy 229 CTGCTCCGCTGACAGAGATGATGTCACCCACAGTT 266
Db 68 GGGCCGTGACTCTCAGGCTCACCCTGCGCAGGGCCACTT 31

```

```

Search completed: August 26, 2005, 12:32:28
Job time : 3.81314 secs

```

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

```

Run on: August 26, 2005, 12:31:55 ; Search time 2.81314 Seconds
          (without alignments)
          4.206 Million cell updates/sec

```

```

Title: US-09-598-982C-22
Perfect score: 771
Sequence: 1 99gccccctcgagaagaat.....cgrgaagcggcgccgctcgt 771

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```

Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 0.5

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Searched: 10 seqs, 7674 residues
Total number of hits satisfying chosen parameters: 20

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Minimum DB seq length: 0
Maximum DB seq length: inf

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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 200 summaries

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```

Database : US09598982C.rev.seq.*
Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,

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and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	771	100.0	771	1	US-09-598-982C-22	Sequence 22, Appl
2	769.4	99.8	771	1	US-09-598-982C-38	Sequence 38, Appl
3	767.8	99.6	771	1	US-09-598-982C-8	Sequence 8, Appl
4	761.4	98.8	771	1	US-09-598-982C-20	Sequence 20, Appl
5	759.8	98.5	771	1	US-09-598-982C-35	Sequence 35, Appl
6	758.2	98.3	771	1	US-09-598-982C-24	Sequence 24, Appl
7	758.2	98.3	771	1	US-09-598-982C-26	Sequence 26, Appl
8	756.6	98.1	771	1	US-09-598-982C-40	Sequence 40, Appl
9	756.6	98.1	771	1	US-09-598-982C-42	Sequence 42, Appl
10	731.8	94.9	771	1	US-09-598-982C-10	Sequence 10, Appl
C 11	28.2	3.7	771	1	US-09-598-982C-8	Sequence 8, Appl
C 12	28.2	3.7	771	1	US-09-598-982C-20	Sequence 20, Appl
C 13	28.2	3.7	771	1	US-09-598-982C-22	Sequence 22, Appl
C 14	28.2	3.7	771	1	US-09-598-982C-24	Sequence 24, Appl
C 15	28.2	3.7	771	1	US-09-598-982C-26	Sequence 26, Appl
C 16	28.2	3.7	771	1	US-09-598-982C-35	Sequence 35, Appl
C 17	28.2	3.7	771	1	US-09-598-982C-38	Sequence 38, Appl
C 18	28.2	3.7	771	1	US-09-598-982C-40	Sequence 40, Appl
C 19	28.2	3.7	771	1	US-09-598-982C-42	Sequence 42, Appl
C 20	24.2	3.1	735	1	US-09-598-982C-10	Sequence 10, Appl

ALIGNMENTS

```

RESULT 1
US-09-598-982C-22
; Sequence 22, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASIS, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 22
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
US-09-598-982C-22

```

```

Query Match 100.0%; Score 771; DB 1; Length 771;
Best Local Similarity 100.0%; Pred. No. 0.037;
Matches 771; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 GGGCCCTCGAGAAAAGAAATCGTCGGGGGTCAAGAGCCCGCCAGAGCAAGTGGCCCTG 60
DB 1 GGGCCCTCGAGAAAAGAAATCGTCGGGGGTCAAGAGCCCGCCAGAGCAAGTGGCCCTG 60
QY 61 CAGGTGAGCCTGAGAGTCCAGCCGCACTGAGTGCATCTTGGCGGGGCTCCCTCATC 120
DB 61 CAGGTGAGCCTGAGAGTCCAGCCGCACTGAGTGCATCTTGGCGGGGCTCCCTCATC 120
QY 121 CACCCCAAGTGGGTGCTGACCGCAGCGCACTGCGTGGAGCCGGACGTCAAGATCTGGCC 180
DB 121 CACCCCAAGTGGGTGCTGACCGCAGCGCACTGCGTGGAGCCGGACGTCAAGATCTGGCC 180

```

```

QY 181 GCCCTCAGAGGTGCAACTGCGGGAGGAGCACTTACTACTACAGAGCCAGACTGTCGGCTG 240
DB 181 GCCCTCAGAGGTGCAACTGCGGGAGGAGCACTTACTACTACAGAGCCAGACTGTCGGCTG 240
QY 241 AGCAGATCATGTCGACCCCAAGTTCATCAACCGCCAGATCGAGCGGCATCGCCCTG 300
DB 241 AGCAGATCATGTCGACCCCAAGTTCATCAACCGCCAGATCGAGCGGCATCGCCCTG 300
QY 301 CTGAGCTGAGAGACCGGATGAGGTCTCAGCCAGTCCACACCGTGCACCTGCCCCT 360
DB 301 CTGAGCTGAGAGACCGGATGAGGTCTCAGCCAGTCCACACCGTGCACCTGCCCCT 360
QY 361 GCCTGAGAGACCTTCCCGGGAGTGGCGTGGTCACTGGTGGGAGTGGAC 420
DB 361 GCCTGAGAGACCTTCCCGGGAGTGGCGTGGTCACTGGTGGGAGTGGAC 420
QY 421 AATGATGAGCGCCCTCCACCGCATTTCTCTGAAGCAGTGAAGTCCCATTAATGAA 480
DB 421 AATGATGAGCGCCCTCCACCGCATTTCTCTGAAGCAGTGAAGTCCCATTAATGAA 480
QY 481 AACCAATTGTGAGCGCAAAAATACCACTTGGCGCTCACGGGAGAGAGTCCGCAATC 540
DB 481 AACCAATTGTGAGCGCAAAAATACCACTTGGCGCTCACGGGAGAGAGTCCGCAATC 540
QY 541 GTCCGTGAGCAATGCTGTGCGGGAGAACCGCGAGAGACTATGCGAGGACTCC 600
DB 541 GTCCGTGAGCAATGCTGTGCGGGAGAACCGCGAGAGACTATGCGAGGACTCC 600
QY 601 GGAAGGCGCCCTGTGTGCAAGGTGACACTTGGCTGCAAGGCGGCTGTGCTGAGCTGG 660
DB 601 GGAAGGCGCCCTGTGTGCAAGGTGACACTTGGCTGCAAGGCGGCTGTGCTGAGCTGG 660
QY 661 GCGAGGGGCTGTGCCAGCCCAACCGCTTGGCATCTACACCCGTGTGCACTTGTG 720
DB 661 GCGAGGGGCTGTGCCAGCCCAACCGCTTGGCATCTACACCCGTGTGCACTTGTG 720

```

```

RESULT 2
US-09-598-982C-38
; Sequence 38, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASIS, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 38
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
US-09-598-982C-38

```

```

Query Match 99.8%; Score 769.4; DB 1; Length 771;
Best Local Similarity 99.9%; Pred. No. 0.037;
Matches 770; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

QY 1 GGGCCCTCGAGAAAAGAAATCGTCGGGGGTCAAGAGCCCGCCAGAGCAAGTGGCCCTG 60
DB 1 GGGCCCTCGAGAAAAGAAATCGTCGGGGGTCAAGAGCCCGCCAGAGCAAGTGGCCCTG 60

```

```

OY 61 CAGGTGAGGCTGAGAGTCCAGGGCCCAATPACTGGATGCACTTCTGCGGGGGCTCCCTCATC 120
DB 61 CAGGTGAGGCTGAGAGTCCAGGGCCCAATPACTGGATGCACTTCTGCGGGGGCTCCCTCATC 120
OY 121 CACCCCAAGTGGGTGTGACCCGACGGCACTGCGTGGGACCCGGAAGTCAAGGATCTGGCC 180
DB 121 CACCCCAAGTGGGTGTGACCCGACGGCACTGCGTGGGACCCGGAAGTCAAGGATCTGGCC 180
OY 181 GCCCTCAGGGGTCAACTGCGGGGACGACCTCTACTACAGACCAAGCTGCTGCCGGTTC 240
DB 181 GCCCTCAGGGGTCAACTGCGGGGACGACCTCTACTACAGACCAAGCTGCTGCCGGTTC 240
OY 241 AGCAGGATCATGTGACCCAGGTTCTACAGCGCCAGATGGGAGCCGCAATGCCCTG 300
DB 241 AGCAGGATCATGTGACCCAGGTTCTACAGCGCCAGATGGGAGCCGCAATGCCCTG 300
OY 301 CTGAGCTGAGAGAGCCGGTGAAGGTCTCAGCCACAGTCCACAGCGTCCCTGCCCT 360
DB 301 CTGAGCTGAGAGAGCCGGTGAAGGTCTCAGCCACAGTCCACAGCGTCCCTGCCCT 360
OY 361 GCCTCAGAGACCTTCCCGGGGATGCGGTCTGGGTCACTGGCTGGGGGATGTGAGAC 420
DB 361 GCCTCAGAGACCTTCCCGGGGATGCGGTCTGGGTCACTGGCTGGGGGATGTGAGAC 420
OY 421 AATGATGAGCGGCTCCCGGCAATTTCTCTGAAAGCAGGATGAAAGTCCCAATAATGAA 480
DB 421 AATGATGAGCGGCTCCCGGCAATTTCTCTGAAAGCAGGATGAAAGTCCCAATAATGAA 480
OY 481 AACCAATTTGTGACGCAAAATATACACTTGGCGCTACACCGGAGACGACGTCCGCATC 540
DB 481 AACCAATTTGTGACGCAAAATATACACTTGGCGCTACACCGGAGACGACGTCCGCATC 540
OY 541 GTCCTGACGACATGCTGTGTGCGCGGAAACACCCGGAGGAACTCATGCCAGGGCACTCC 600
DB 541 GTCCTGACGACATGCTGTGTGCGCGGAAACACCCGGAGGAACTCATGCCAGGGCACTCC 600
OY 601 GGAAGGGCCCTGTGTGTGCAAGGATGGAATGGCACTGGCTGCAAGCGCGGTGCTGAGCTGG 660
DB 601 GGAAGGGCCCTGTGTGTGCAAGGATGGAATGGCACTGGCTGCAAGCGCGGTGCTGAGCTGG 660
OY 661 GGCAGGGGCTGTGCCAGCCCAACCGGCTGTGCACTACACCCGATGTCACTACTACTTG 720
DB 661 GGCAGGGGCTGTGCCAGCCCAACCGGCTGTGCACTACACCCGATGTCACTACTACTTG 720
OY 721 GACTGATCCACCACTATGTCCCAAAAAGCCGTGAAGCGGCCGCTGCT 771
DB 721 GACTGATCCACCACTATGTCCCAAAAAGCCGTGAAGCGGCCGCTGCT 771

```

```

RESULT 3
US-09-598-982C-8
; Sequence 8, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffett, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSINS, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT FILING DATE: 2000-06-21
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 8
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)

```

US-09-598-982C-8

```

Query Match 99.6%; Score 767.8; DB 1; Length 771;
Best Local Similarity 99.7%; Pred. No. 0.038;
Matches 769; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

```

OY 1 GGGCCCTCAGAAAAGAAATGTCGGGGGATCAGGAGGCCCCAGAGCAATGGCCCTGG 60
DB 1 GGGCCCTCAGAAAAGAAATGTCGGGGGATCAGGAGGCCCCAGAGCAATGGCCCTGG 60
OY 61 CAGGTGAGGCTGAGAGTCCAGGCCCAATPACTGGATGCACTTCTGCGGGGGCTCCCTCATC 120
DB 61 CAGGTGAGGCTGAGAGTCCAGGCCCAATPACTGGATGCACTTCTGCGGGGGCTCCCTCATC 120
OY 121 CACCCCAAGTGGGTGTGACCCGACGGCACTGCGTGGGACCCGGAAGTCAAGGATCTGGCC 180
DB 121 CACCCCAAGTGGGTGTGACCCGACGGCACTGCGTGGGACCCGGAAGTCAAGGATCTGGCC 180
OY 181 GCCCTCAGGGGTCAACTGCGGGGACGACCTCTACTACAGACCAAGCTGCTGCCGGTTC 240
DB 181 GCCCTCAGGGGTCAACTGCGGGGACGACCTCTACTACAGACCAAGCTGCTGCCGGTTC 240
OY 241 AGCAGGATCATGTGACCCAGGTTCTACAGCGCCAGATGGGAGCCGCAATGCCCTG 300
DB 241 AGCAGGATCATGTGACCCAGGTTCTACAGCGCCAGATGGGAGCCGCAATGCCCTG 300
OY 301 CTGAGCTGAGAGAGCCGGTGAAGGTCTCAGCCACAGTCCACAGCGTCCCTGCCCT 360
DB 301 CTGAGCTGAGAGAGCCGGTGAAGGTCTCAGCCACAGTCCACAGCGTCCCTGCCCT 360
OY 361 GCCTCAGAGACCTTCCCGGGGATGCGGTCTGGGTCACTGGCTGGGGGATGTGAGAC 420
DB 361 GCCTCAGAGACCTTCCCGGGGATGCGGTCTGGGTCACTGGCTGGGGGATGTGAGAC 420
OY 421 AATGATGAGCGGCTCCCGGCAATTTCTCTGAAAGCAGGATGAAAGTCCCAATAATGAA 480
DB 421 AATGATGAGCGGCTCCCGGCAATTTCTCTGAAAGCAGGATGAAAGTCCCAATAATGAA 480
OY 481 AACCAATTTGTGACGCAAAATATACACTTGGCGCTACACCGGAGACGACGTCCGCATC 540
DB 481 AACCAATTTGTGACGCAAAATATACACTTGGCGCTACACCGGAGACGACGTCCGCATC 540
OY 541 GTCCTGACGACATGCTGTGTGCGCGGAAACACCCGGAGGAACTCATGCCAGGGCACTCC 600
DB 541 GTCCTGACGACATGCTGTGTGCGCGGAAACACCCGGAGGAACTCATGCCAGGGCACTCC 600
OY 601 GGAAGGGCCCTGTGTGTGCAAGGATGGAATGGCACTGGCTGCAAGCGCGGTGCTGAGCTGG 660
DB 601 GGAAGGGCCCTGTGTGTGCAAGGATGGAATGGCACTGGCTGCAAGCGCGGTGCTGAGCTGG 660
OY 661 GGCAGGGGCTGTGCCAGCCCAACCGGCTGTGCACTACACCCGATGTCACTACTACTTG 720
DB 661 GGCAGGGGCTGTGCCAGCCCAACCGGCTGTGCACTACACCCGATGTCACTACTACTTG 720
OY 721 GACTGATCCACCACTATGTCCCAAAAAGCCGTGAAGCGGCCGCTGCT 771
DB 721 GACTGATCCACCACTATGTCCCAAAAAGCCGTGAAGCGGCCGCTGCT 771

```

```

RESULT 4
US-09-598-982C-20
; Sequence 20, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffett, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSINS, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT FILING DATE: 2000-06-21
; PRIOR FILING DATE: 1998-04-15

```

```

; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 20
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
US-09-598-982C-20

```

```

Query Match      98.8%; Score 761.4; DB 1; Length 771;
Best Local Similarity 99.2%; Pred. No. 0.04;
Matches 765; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

```

```

Qy 1 GGGCCCCCTCGAAGAAAAGAAATCGTGGGGGGTCAAGAGAGCCCCCAAGAGCAAGTGGCCCTGG 60
Db 1 GGGCCCCCTCGAAGAAAAGAAATCGTGGGGGGTCAAGAGAGCCCCCAAGAGCAAGTGGCCCTGG 60
Qy 61 CAGGTGAGCCTGAGAGTCCACCGGCCCAATCTGGATGCACTTCTGCGGGGGCTCCCTCATC 120
Db 61 CAGGTGAGCCTGAGAGTCCACCGGCCCAATCTGGATGCACTTCTGCGGGGGCTCCCTCATC 120
Qy 121 CACCCCAAGTGGGTGCTGACCGGAGCGCACTGCTGGAGACCGGACGTCMAAGATCTGGCC 180
Db 121 CACCCCAAGTGGGTGCTGACCGGAGCGCGGCGGCTGGGGACCGGACGTCMAAGATCTGGCC 180
Qy 181 GGCCTCAGAGGTGCACTGCGGGAGAGCACTCTACTACCGAGGACCGAGCTGCGCCGTC 240
Db 181 GGCCTCAGAGGTGCACTGCGGGAGAGCACTCTACTACCGAGGACCGAGCTGCGCCGTC 240
Qy 241 AGCAGGATCATCGTGCACCCACAGTTCTACACCGCCCAAGTCGAGCCGAGCATCGCCCTG 300
Db 241 AGCAGGATCATCGTGCACCCACAGTTCTACACCGCCCAAGTCGAGCCGAGCATCGCCCTG 300
Qy 301 CTGGAGCTGGAGAGAGCCGGTGAAGGTCCTCAGGCAAGTCCAGCGTCAACCTTGCCTCCCT 360
Db 301 CTGGAGCTGGAGAGAGCCGGTGAAGGTCCTCAGGCAAGTCCAGCGTCAACCTTGCCTCCCT 360
Qy 361 GCCTCAGAGACTTCCCGGGGAGTCCGTCGGGTCACTGGCTGGGGCGATGTGAGC 420
Db 361 GCCTCAGAGACTTCCCGGGGAGTCCGTCGGGTCACTGGCTGGGGCGATGTGAGC 420
Qy 421 AATGATGAGCGCTCCCAACCGCATTTCTCTGAAGCAGGTGAAGTCCCATTAATGAA 480
Db 421 AATGATGAGCGCTCCCAACCGCATTTCTCTGAAGCAGGTGAAGTCCCATTAATGAA 480
Qy 481 AACCACTTTGTGACGGAAATAACAACCTTGGGGCTTAACAAGGAGACCAACGTCGGCATC 540
Db 481 AACCACTTTGTGACGGAAATAACAACCTTGGGGCTTAACAAGGAGACCAACGTCGGCATC 540
Qy 541 GTCCTGAGACGACATGCTGTGCGGGGAAACCCCGAGGAGACTCATGCGAGGGCACTCC 600
Db 541 GTCCTGAGACGACATGCTGTGCGGGGAAACCCCGAGGAGACTCATGCGAGGGCACTCC 600
Qy 601 GAGAGGGCCCTGCTGTGCAAGGATGCACTTGGCTGAGAGCGGGCGTGTCAAGCTGG 660
Db 601 GAGAGGGCCCTGCTGTGCAAGGATGCACTTGGCTGAGAGCGGGCGTGTCAAGCTGG 660
Qy 661 GGGAGGGGCTGTGCTCCCAACCGGCTGGGATCTAACAACCGTGTCACTTAATCTTG 720
Db 661 GGGAGGGGCTGTGCTCCCAACCGGCTGGGATCTAACAACCGTGTCACTTAATCTTG 720
Qy 721 GACTGATCCACCACTAATGTCCCAAAAAAGCCGTGAAGCGGCGCGTGT 771
Db 721 GACTGATCCACCACTAATGTCCCAAAAAAGCCGTGAAGCGGCGCGTGT 771

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RESULT 5
US-09-598-982C-36
; Sequence 36. Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Miles, Andrew

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; APPLICANT: Mafilt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSINS, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; PRIORITY FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 36
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
US-09-598-982C-36

```

```

Query Match      98.5%; Score 759.8; DB 1; Length 771;
Best Local Similarity 99.1%; Pred. No. 0.041;
Matches 764; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

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Qy 1 GGGCCCCCTCGAAGAAAAGAAATCGTGGGGGGTCAAGAGAGCCCCCAAGAGCAAGTGGCCCTGG 60
Db 1 GGGCCCCCTCGAAGAAAAGAAATCGTGGGGGGTCAAGAGAGCCCCCAAGAGCAAGTGGCCCTGG 60
Qy 61 CAGGTGAGCCTGAGAGTCCACCGGCCCAATCTGGATGCACTTCTGCGGGGGCTCCCTCATC 120
Db 61 CAGGTGAGCCTGAGAGTCCACCGGCCCAATCTGGATGCACTTCTGCGGGGGCTCCCTCATC 120
Qy 121 CACCCCAAGTGGGTGCTGACCGGAGCGCACTGCTGGAGACCGGACGTCMAAGATCTGGCC 180
Db 121 CACCCCAAGTGGGTGCTGACCGGAGCGCGGCGGCTGGGGACCGGACGTCMAAGATCTGGCC 180
Qy 181 GGCCTCAGAGGTGCACTGCGGGAGAGCACTCTACTACCGAGGACCGAGCTGCGCCGTC 240
Db 181 GGCCTCAGAGGTGCACTGCGGGAGAGCACTCTACTACCGAGGACCGAGCTGCGCCGTC 240
Qy 241 AGCAGGATCATCGTGCACCCACAGTTCTACACCGCCCAAGTCGAGCCGAGCATCGCCCTG 300
Db 241 AGCAGGATCATCGTGCACCCACAGTTCTACACCGCCCAAGTCGAGCCGAGCATCGCCCTG 300
Qy 301 CTGGAGCTGGAGAGAGCCGGTGAAGGTCCTCAGGCAAGTCCAGCGTCAACCTTGCCTCCCT 360
Db 301 CTGGAGCTGGAGAGAGCCGGTGAAGGTCCTCAGGCAAGTCCAGCGTCAACCTTGCCTCCCT 360
Qy 361 GCCTCAGAGACTTCCCGGGGAGTCCGTCGGGTCACTGGCTGGGGCGATGTGAGC 420
Db 361 GCCTCAGAGACTTCCCGGGGAGTCCGTCGGGTCACTGGCTGGGGCGATGTGAGC 420
Qy 421 AATGATGAGCGCTCCCAACCGCATTTCTCTGAAGCAGGTGAAGTCCCATTAATGAA 480
Db 421 AATGATGAGCGCTCCCAACCGCATTTCTCTGAAGCAGGTGAAGTCCCATTAATGAA 480
Qy 481 AACCACTTTGTGACGGAAATAACAACCTTGGGGCTTAACAAGGAGACCAACGTCGGCATC 540
Db 481 AACCACTTTGTGACGGAAATAACAACCTTGGGGCTTAACAAGGAGACCAACGTCGGCATC 540
Qy 541 GTCCTGAGACGACATGCTGTGCGGGGAAACCCCGAGGAGACTCATGCGAGGGCACTCC 600
Db 541 GTCCTGAGACGACATGCTGTGCGGGGAAACCCCGAGGAGACTCATGCGAGGGCACTCC 600
Qy 601 GAGAGGGCCCTGCTGTGCAAGGATGCACTTGGCTGAGAGCGGGCGTGTCAAGCTGG 660
Db 601 GAGAGGGCCCTGCTGTGCAAGGATGCACTTGGCTGAGAGCGGGCGTGTCAAGCTGG 660
Qy 661 GGGAGGGGCTGTGCTCCCAACCGGCTGGGATCTAACAACCGTGTCACTTAATCTTG 720
Db 661 GGGAGGGGCTGTGCTCCCAACCGGCTGGGATCTAACAACCGTGTCACTTAATCTTG 720
Qy 721 GACTGATCCACCACTAATGTCCCAAAAAAGCCGTGAAGCGGCGCGTGT 771
Db 721 GACTGATCCACCACTAATGTCCCAAAAAAGCCGTGAAGCGGCGCGTGT 771

```

Db 721 GACTGGATCCACCACTATGTCCCAAAAAGCGGTGAAGGGCCGCGCTGT 771

RESULT 6  
US-09-598-982C-24  
Sequence 24, Application US/09598982C

GENERAL INFORMATION:  
APPLICANT: Niles, Andrew  
APPLICANT: Maffett, Mark  
APPLICANT: Haak-Frendescho, Mary  
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,  
TITLE OF INVENTION: AND METHODS OF MAKING SAME  
FILE REFERENCE: 34506.104  
CURRENT APPLICATION NUMBER: US/09/598,982C  
CURRENT FILING DATE: 2000-06-21  
PRIOR APPLICATION NUMBER: 09/079,970  
PRIOR FILING DATE: 1998-04-15  
NUMBER OF SEQ ID NOS: 52  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO: 24  
LENGTH: 771  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: CDS  
LOCATION: (7)..(753)  
US-09-598-982C-24

Query Match 98.3%; Score 758.2; DB 1; Length 771;  
Best Local Similarity 99.0%; Pred. No. 0.041; Indels 8; Gaps 0;  
Matches 763; Conservative 0; Mismatches 8; Indels 8; Gaps 0;

Qy 1 GGGCCCCCTCGAGAAAAGAAATCGTGGGGGTGAGAGAGCCCGGAGAGCAAGTGGCCCTGG 60  
Db 1 GGGCCCCCTCGAGAAAAGAAATCGTGGGGGTGAGAGAGCCCGGAGAGCAAGTGGCCCTGG 60  
Qy 61 CAGGTGAGGCTGAGAGTCCAGGGCCCATCTGAGAGTCACTTTGGGGGGGCTCCCTCATC 120  
Db 61 CAGGTGAGGCTGAGAGTCCAGGGCCCATCTGAGAGTCACTTTGGGGGGGCTCCCTCATC 120  
Qy 121 CACCCCGAGTGGGTCTGACCGGAGCACTGCGTGGAGCCGGAAGTCTGGCC 180  
Db 121 CACCCCGAGTGGGTCTGACCGGAGCACTGCGTGGAGCCGGAAGTCTGGCC 180  
Qy 181 GCGCTCAGGGGTCAACTGCGGGAGGAGCACTCTACTACAGAGCAAGCTGCTGCGGGT 240  
Db 181 GCGCTCAGGGGTCAACTGCGGGAGGAGCACTCTACTACAGAGCAAGCTGCTGCGGGT 240  
Qy 241 AGCAGGATCATCTGTGACCCCAAGTTCTTCAACCGCCCAAGTGGAGCGGCAATGGCCCTG 300  
Db 241 AGCAGGATCATCTGTGACCCCAAGTTCTTCAACCGCCCAAGTGGAGCGGCAATGGCCCTG 300  
Qy 301 CTGAGCTGAGAGAGCGGTGAAGGTCTCAGCTCAAGTCTCAACCGTCCCTG 360  
Db 301 CTGAGCTGAGAGAGCGGTGAAGGTCTCAGCTCAAGTCTCAACCGTCCCTG 360  
Qy 361 GCGTCAAGAGACTTCCCGGGGATGCGGTCTGGGTCACTGGCTGGGGGATGTGAGC 420  
Db 361 GCGTCAAGAGACTTCCCGGGGATGCGGTCTGGGTCACTGGCTGGGGGATGTGAGC 420  
Qy 421 AATGATGAGGCGCTCCCAACCGCCATTTCTCTGAAAGCAAGTAAAGTCCCAATATGAA 480  
Db 421 AATGATGAGGCGCTCCCAACCGCCATTTCTCTGAAAGCAAGTAAAGTCCCAATATGAA 480  
Qy 481 AACCAATTTGTGACGCAAAATATCACTTGGCGCTTACACCGGAGAGCAAGTCCGCAATC 540  
Db 481 AACCAATTTGTGACGCAAAATATCACTTGGCGCTTACACCGGAGAGCAAGTCCGCAATC 540  
Qy 541 GTCCGTGAGCAATGCTGTGTGCGGGGAAACCCCGGAGGAACTCATGCGAGGCGAATCC 600  
Db 541 GTCCGTGAGCAATGCTGTGTGCGGGGAAACCCCGGAGGAACTCATGCGAGGCGAATCC 600

Qy 601 GAAGGGCCCTGTGTGTCAGAGTAAATGGCACTGGCTGACAGGGCGGTGTGAGCTGG 660  
Db 601 GGCGGACCTCTGTGTGTGTCAGAGTAAATGGCACTGGCTGACAGGGCGGTGTGAGCTGG 660

RESULT 7  
US-09-598-982C-26  
Sequence 26, Application US/09598982C

GENERAL INFORMATION:  
APPLICANT: Niles, Andrew  
APPLICANT: Maffett, Mark  
APPLICANT: Haak-Frendescho, Mary  
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,  
TITLE OF INVENTION: AND METHODS OF MAKING SAME  
FILE REFERENCE: 34506.104  
CURRENT APPLICATION NUMBER: US/09/598,982C  
CURRENT FILING DATE: 2000-06-21  
PRIOR APPLICATION NUMBER: 09/079,970  
PRIOR FILING DATE: 1998-04-15  
NUMBER OF SEQ ID NOS: 52  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO: 26  
LENGTH: 771  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: CDS  
LOCATION: (7)..(753)  
US-09-598-982C-26

Query Match 98.3%; Score 758.2; DB 1; Length 771;  
Best Local Similarity 99.0%; Pred. No. 0.041; Indels 8; Gaps 0;  
Matches 763; Conservative 0; Mismatches 8; Indels 8; Gaps 0;

Qy 1 GGGCCCCCTCGAGAAAAGAAATCGTGGGGGTGAGAGAGCCCGGAGAGCAAGTGGCCCTGG 60  
Db 1 GGGCCCCCTCGAGAAAAGAAATCGTGGGGGTGAGAGAGCCCGGAGAGCAAGTGGCCCTGG 60  
Qy 61 CAGGTGAGGCTGAGAGTCCAGGGCCCATCTGAGAGTCACTTTGGGGGGGCTCCCTCATC 120  
Db 61 CAGGTGAGGCTGAGAGTCCAGGGCCCATCTGAGAGTCACTTTGGGGGGGCTCCCTCATC 120  
Qy 121 CACCCCGAGTGGGTCTGACCGGAGCACTGCGTGGAGCCGGAAGTCTGGCC 180  
Db 121 CACCCCGAGTGGGTCTGACCGGAGCACTGCGTGGAGCCGGAAGTCTGGCC 180  
Qy 181 GCGCTCAGGGGTCAACTGCGGGAGGAGCACTCTACTACAGAGCAAGCTGCTGCGGGT 240  
Db 181 GCGCTCAGGGGTCAACTGCGGGAGGAGCACTCTACTACAGAGCAAGCTGCTGCGGGT 240  
Qy 241 AGCAGGATCATCTGTGACCCCAAGTTCTTCAACCGCCCAAGTGGAGCGGCAATGGCCCTG 300  
Db 241 AGCAGGATCATCTGTGACCCCAAGTTCTTCAACCGCCCAAGTGGAGCGGCAATGGCCCTG 300  
Qy 301 CTGAGCTGAGAGAGCGGTGAAGGTCTCAGCTCAAGTCTCAACCGTCCCTG 360  
Db 301 CTGAGCTGAGAGAGCGGTGAAGGTCTCAGCTCAAGTCTCAACCGTCCCTG 360  
Qy 361 GCGTCAAGAGACTTCCCGGGGATGCGGTCTGGGTCACTGGCTGGGGGATGTGAGC 420  
Db 361 GCGTCAAGAGACTTCCCGGGGATGCGGTCTGGGTCACTGGCTGGGGGATGTGAGC 420  
Qy 421 AATGATGAGGCGCTCCCAACCGCCATTTCTCTGAAAGCAAGTAAAGTCCCAATATGAA 480  
Db 421 AATGATGAGGCGCTCCCAACCGCCATTTCTCTGAAAGCAAGTAAAGTCCCAATATGAA 480

QY 481 AACCAATTTGTGACCGCAAAATACCACTTGGCGCCTTACACCGGAGACGATCGGCATC 540  
 DB 481 AACCAATTTGTGACCGCAAAATACCACTTGGCGCCTTACACCGGAGACGATCGGCATC 540  
 QY 541 GTCCTGAGACGACATGCTGTGTGCGGGGAAACCCCGGAGGATCATGCGGAGCCATCC 600  
 DB 541 GTCCTGAGACGACATGCTGTGTGCGGGGAAACCCCGGAGGATCATGCGGAGCCATCC 600  
 QY 601 GGAGGGCCCTGAGTGTGCAAGGTAATGAGCACTGGCTGAGAGCGGGCGTGTCAAGCTGG 660  
 DB 601 GGCGGACCACTGAGTGTGCAAGGTAATGAGCACTGGCTGAGAGCGGGCGTGTCAAGCTGG 660  
 QY 661 GGCGGAGGCTGTGCGCCAGCCCAACCGGCGTGGCATCTACACCCGTGTCACTACTTGG 720  
 DB 661 GGCGGAGGCTGTGCGCCAGCCCAACCGGCGTGGCATCTACACCCGTGTCACTACTTGG 720  
 QY 721 GACTGATTCACCACTATGTCCCAAAAAGCCGTGAAGCGGCGCGCTGT 771  
 DB 721 GACTGATTCACCACTATGTCCCAAAAAGCCGTGAAGCGGCGCGCTGT 771

RESULT 8

US-09-598-982C-40  
 ; Sequence 40, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffelt, Mark  
 ; APPLICANT: Haak-Frendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598, 982C  
 ; CURRENT FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079, 970  
 ; PRIOR FILING DATE: 1998-04-15  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 40  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 ; US-09-598-982C-40

Query Match 98.1%; Score 756.6; DB 1; Length 771;  
 Best Local Similarity 98.8%; Pred. No. 0.042; Indels 9; Gaps 0;  
 Matches 762; Conservative 0; Mismatches 9;

QY 1 GGGCCCCCTCGAAGAAAAGAAATGTCGGGGGTCAAGAGGCCCCCAGAGCAAGTGGCCCTGG 60  
 DB 1 GGGCCCCCTCGAAGAAAAGAAATGTCGGGGGTCAAGAGGCCCCCAGAGCAAGTGGCCCTGG 60  
 QY 61 CAGGTGAGCTGAGAGTCCACGGCCCACTACTGATGCACTTCTGGGGGGCTCCCTGATC 120  
 DB 61 CAGGTGAGCTGAGAGTCCACGGCCCACTACTGATGCACTTCTGGGGGGCTCCCTGATC 120  
 QY 121 CACCCCAAGTGGGTGTGCAACCGAGGCACTGGTGTGGGACCGGACCGTCAAGATGAGTGGCC 180  
 DB 121 CACCCCAAGTGGGTGTGCAACCGAGGCACTGGTGTGGGACCGGACCGTCAAGATGAGTGGCC 180  
 QY 181 GCGCTCAGGGGTGCAACTGCGGGAGACACTCTACTACCAAGGACCAAGTGTGCGCGTCC 240  
 DB 181 GCGCTCAGGGGTGCAACTGCGGGAGACACTCTACTACCAAGGACCAAGTGTGCGCGTCC 240  
 QY 241 AGCAGATCATCTGTGCAACCAAGTCTACACCGCCCAAGTCCGAGCGGCAATCGCCCTG 300  
 DB 241 AGCAGATCATCTGTGCAACCAAGTCTACACCGCCCAAGTCCGAGCGGCAATCGCCCTG 300  
 QY 301 CTGGAAGTGGAGGAGCGGGTGAAGGTCTCAAGCCAGTCCACAGCGTCAACCTGCGCCCTC 360

DB 301 CTGGAAGTGGAGGAGCGGGTGAAGGTCTCAAGCCACGTCACACGGTCAACCCCTGCCCC 360  
 QY 361 GCGTCAAGACCTTCCCGCGGGATGCGCGTGTGAGTCACTGTGGGGGAGATGAGAC 420  
 DB 361 GCGTCAAGACCTTCCCGCGGGATGCGCGTGTGAGTCACTGTGGGGGAGATGAGAC 420  
 QY 421 AATGATGAGCGCTCCACCGGCATTTCTGTGAAGCAGTGTGAAGTCCCATTAATGGA 480  
 DB 421 AATGATGAGCGCGCTCCACCGGCATTTCTGTGAAGCAGTGTGAAGTCCCATTAATGGA 480  
 QY 481 AACCAATTTGTGACCGCAAAATACCACTTGGCGCCTTACACCGGAGACGATCGGCATC 540  
 DB 481 AACCAATTTGTGACCGCAAAATACCACTTGGCGCCTTACACCGGAGACGATCGGCATC 540  
 QY 541 GTCCTGAGACGACATGCTGTGTGCGGGGAAACCCCGGAGGATCATGCGGAGCCATCC 600  
 DB 541 GTCCTGAGACGACATGCTGTGTGCGGGGAAACCCCGGAGGATCATGCGGAGCCATCC 600  
 QY 601 GGAGGGCCCTGAGTGTGCAAGGTAATGAGCACTGGCTGAGAGCGGGCGTGTCAAGCTGG 660  
 DB 601 GGCGGACCACTGAGTGTGCAAGGTAATGAGCACTGGCTGAGAGCGGGCGTGTCAAGCTGG 660  
 QY 661 GGCGGAGGCTGTGCGCCAGCCCAACCGGCGTGGCATCTACACCCGTGTCACTACTTGG 720  
 DB 661 GGCGGAGGCTGTGCGCCAGCCCAACCGGCGTGGCATCTACACCCGTGTCACTACTTGG 720  
 QY 721 GACTGATTCACCACTATGTCCCAAAAAGCCGTGAAGCGGCGCGCTGT 771  
 DB 721 GACTGATTCACCACTATGTCCCAAAAAGCCGTGAAGCGGCGCGCTGT 771

RESULT 9

US-09-598-982C-42  
 ; Sequence 42, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffelt, Mark  
 ; APPLICANT: Haak-Frendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598, 982C  
 ; CURRENT FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079, 970  
 ; PRIOR FILING DATE: 1998-04-15  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 42  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 ; US-09-598-982C-42

Query Match 98.1%; Score 756.6; DB 1; Length 771;  
 Best Local Similarity 98.8%; Pred. No. 0.042; Indels 9; Gaps 0;  
 Matches 762; Conservative 0; Mismatches 9;

QY 1 GGGCCCCCTCGAAGAAAAGAAATGTCGGGGGTCAAGAGGCCCCCAGAGCAAGTGGCCCTGG 60  
 DB 1 GGGCCCCCTCGAAGAAAAGAAATGTCGGGGGTCAAGAGGCCCCCAGAGCAAGTGGCCCTGG 60  
 QY 61 CAGGTGAGCTGAGAGTCCACGGCCCACTACTGATGCACTTCTGGGGGGCTCCCTGATC 120  
 DB 61 CAGGTGAGCTGAGAGTCCACGGCCCACTACTGATGCACTTCTGGGGGGCTCCCTGATC 120  
 QY 121 CACCCCAAGTGGGTGTGCAACCGAGGCACTGGTGTGGGACCGGACCGTCAAGATGAGTGGCC 180  
 DB 121 CACCCCAAGTGGGTGTGCAACCGAGGCACTGGTGTGGGACCGGACCGTCAAGATGAGTGGCC 180  
 QY 181 GCGCTCAGGGGTGCAACTGCGGGAGACACTCTACTACCAAGGACCAAGTGTGCGCCCTC 240



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Db 181 GCCTCAGGGGTCACTGGGGAGAGCACTCTAACAAGACAGCTGTGGCCGGTTC
Qy 241 AGCAGGATCATGTGTGACCCCAAGTTTCAACCCGCCAGATGGAGCCGGAATCCGCTTG
Db 241 ACCAGGATCATGTGTGACCCCAAGTTTCAACCCGCCAGATGGAGCCGGAATCCGCTTG
Qy 301 CTGGAGCTGAGAGAGCCGGTGAAGGTCTCAGGCAAGTCAGACGGTCAACCCCTGCCCT
Db 301 CTGGAGCTGAGAGAGCCGGTGAAGGTCTCAGGCAAGTCAGACGGTCAACCCCTGCCCT
Qy 361 GCCTCAGAGACCCTTCCCCGGGGAGTCCGTGTGGTCACTGGCTGGGGCCAGTGTGAC
Db 361 GCCTCAGAGACCCTTCCCCGGGGAGTCCGTGTGGTCACTGGCTGGGGCCAGTGTGAC
Qy 421 AATGATGAGCCCTCCCAACCGCATTTCTTGAAGCAGATGAAAGTCCCAATATGAA
Db 421 AATGATGAGCCCTCCCAACCGCATTTCTTGAAGCAGATGAAAGTCCCAATATGAA
Qy 481 AACCAATTGTGTGAGCCAAATACCACTTGGGGCCCTAACAAGAGAGACGATCCGCAATC
Db 481 AACCAATTGTGTGAGCCAAATACCACTTGGGGCCCTAACAAGAGAGACGATCCGCAATC
Qy 541 GTCCGTGACGACATGTGTGTGTCGGGAAACACCCGGAGGAACTCATGCCAGGGCCATCC
Db 541 GTCCGTGACGACATGTGTGTGTCGGGAAACACCCGGAGGAACTCATGCCAGGGCCATCC
Qy 601 GGAGGACCCCTGTGTGTGCAAGTGAATGGCACCTGGCTGCAAGGCGGTGTCAAGCTGG
Db 601 GGAGGACCCCTGTGTGTGCAAGTGAATGGCACCTGGCTGCAAGGCGGTGTCAAGCTGG
Qy 661 GGGGAGGGGTGTGGCCAGCCAAACCGGCTGGGATCTAACAACCGTGTCACTTACTTGG
Db 661 GGGGAGGGGTGTGGCCAGCCAAACCGGCTGGGATCTAACAACCGTGTCACTTACTTGG
Qy 721 GACTGGATCCACCACCTATGTCCCAAAAAGCCGTGAAGCCGCGCTGTGT
Db 721 GACTGGATCCACCACCTATGTCCCAAAAAGCCGTGAAGCCGCGCTGTGT
RESULT 10
; Sequence 10, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendel, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPHASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; PRIOR FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 10
; LENGTH: 735
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(735)
US-09-598-982C-10

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Query Match          94.9%; Score 731.8; DB 1; Length 735;
Best Local Similarity 99.7%; Pred. No. 0.056;
Matches 733; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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Qy 19 ATCGTCGGGGGTCTCAGAGGCCCCCAGAGCAAGTGGCCCTGGCAAGTGAAGCTTCAAGTTC
Db 1 ATCGTCGGGGGTCTCAGAGGCCCCCAGAGCAAGTGGCCCTGGCAAGTGAAGCTTCAAGTTC

```

```

Qy 79 CACGGCCATTACTGATGCACTTCTGCGGGGGCTCCCTCATTCACACCCCAAGTGGTGTCTG
Db 61 CACGGCCATTACTGATGCACTTCTGCGGGGGCTCCCTCATTCACACCCCAAGTGGTGTCTG
Qy 139 ACCGAGCGGCACTGCGTGGGACCCGAGCTCAAGATCTGGCCCGCTCAGAGGATGACTG
Db 121 ACCGAGCGGCACTGCGTGGGACCCGAGCTCAAGATCTGGCCCGCTCAGAGGATGACTG
Qy 199 CGGAGGACGACCTTACTTACTAACAAGACAGCTGCTGCCGGTCAAGAGATCATGTGAC
Db 181 CGGAGGACGACCTTACTTACTAACAAGACAGCTGCTGCCGGTCAAGAGATCATGTGAC
Qy 259 CCAAGTTCCTAACAACCGCCAGATGAGAGCGGCAATCGCCCTGTGAGAGTGAAGAGGCG
Db 241 CCAAGTTCCTAACAACCGCCAGATGAGAGCGGCAATCGCCCTGTGAGAGTGAAGAGGCG
Qy 319 GTGAAGTCTTCAAGCAGTCCCAACAGCTCAACCTGCCCTGTGAGAGACTTCCCG
Db 301 GTGAAGTCTTCAAGCAGTCCCAACAGCTCAACCTGCCCTGTGAGAGACTTCCCG
Qy 379 CCGGGAGATGCGGTGTGGTCACTGGCTGGGGCCAGTGTGACAAATGATGAGCGCTCCCA
Db 361 CCGGGAGATGCGGTGTGGTCACTGGCTGGGGCCAGTGTGACAAATGATGAGCGCTCCCA
Qy 439 CCGCCATTTCTTGAAGCAGATGAAAGTCCCAATATGAAAGAACCAATTTGTGACGCA
Db 421 CCGCCATTTCTTGAAGCAGATGAAAGTCCCAATATGAAAGAACCAATTTGTGACGCA
Qy 499 AAATACCACTTGGCCCTTCAACGAGAGCAAGCTCCGATGTCCGTGAAGCAATGTCTG
Db 481 AAATACCACTTGGCCCTTCAACGAGAGCAAGCTCCGATGTCCGATGTCCGTGAAGCAATGTCTG
Qy 559 TGTGCGGGAAACACCCGGAGGAACTCATGCGAGCCACTCCGAGGGCCCTGTGTGTC
Db 541 TGTGCGGGAAACACCCGGAGGAACTCATGCGAGCCACTCCGAGGGCCCTGTGTGTC
Qy 619 AAGTGAATGACACTGTGCTGACAGCGGGGGTGTGAGCTGAGGGGGAGGGGCTGTGCCAG
Db 601 AAGTGAATGACACTGTGCTGACAGCGGGGGTGTGAGCTGAGGGGGAGGGGCTGTGCCAG
Qy 679 CCAACCGGCTGTGATCTAACAACCGTGTCACTTACTTACTTGAAGTGAAGTCCACCAT
Db 661 CCAACCGGCTGTGATCTAACAACCGTGTCACTTACTTACTTGAAGTGAAGTCCACCAT
Qy 739 GTCCCAAAAAGCCG 753
Db 721 GTCCCAAAAAGCCG 735

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RESULT 11
; Sequence 8, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendel, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPHASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; PRIOR FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 8
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
US-09-598-982C-8

```

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

QY 1 GGGCCCCCGAGAAAAAGATCTGTCGGGGGTCAAGAGGCCCCCGAGGCAAGTGGCCCTGG 60
DB 113 GAGCCCCCGAGAAAGTGCATCCAGTATGGGCCCGTGAAGCTCAAGGCTCACTGCGAGGGC 54
QY 61 CAGGTGAGCCTGAGAGTCCACGGCCCATCTGATGCACTTCTGCGGGGGCTC 113
DB 53 CACTTGCTCTCTGGGGGGCCCTCTGACCCCGAGCAATTTCTTTCTCGAGGGGGCC 1

RESULT 12
US-09-598-982C-20/c
; Sequence 20, Application US/09598982C

GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506.104
CURRENT APPLICATION NUMBER: US/09/598,982C
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079,970
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 20
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (7)..(753)
US-09-598-982C-20

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

QY 1 GGGCCCCCGAGAAAAAGATCTGTCGGGGGTCAAGAGGCCCCCGAGGCAAGTGGCCCTGG 60
DB 113 GAGCCCCCGAGAAAGTGCATCCAGTATGGGCCCGTGAAGCTCAAGGCTCACTGCGAGGGC 54
QY 61 CAGGTGAGCCTGAGAGTCCACGGCCCATCTGATGCACTTCTGCGGGGGCTC 113
DB 53 CACTTGCTCTCTGGGGGGCCCTCTGACCCCGAGCAATTTCTTTCTCGAGGGGGCC 1

RESULT 13
US-09-598-982C-22/c
; Sequence 22, Application US/09598982C

GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506.104
CURRENT APPLICATION NUMBER: US/09/598,982C
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079,970
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 22
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:

NAME/KEY: CDS
LOCATION: (7)..(753)
US-09-598-982C-22

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;
QY 1 GGGCCCCCGAGAAAAAGATCTGTCGGGGGTCAAGAGGCCCCCGAGGCAAGTGGCCCTGG 60
DB 113 GAGCCCCCGAGAAAGTGCATCCAGTATGGGCCCGTGAAGCTCAAGGCTCACTGCGAGGGC 54
QY 61 CAGGTGAGCCTGAGAGTCCACGGCCCATCTGATGCACTTCTGCGGGGGCTC 113
DB 53 CACTTGCTCTCTGGGGGGCCCTCTGACCCCGAGCAATTTCTTTCTCGAGGGGGCC 1

RESULT 14
US-09-598-982C-24/c
; Sequence 24, Application US/09598982C

GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506.104
CURRENT APPLICATION NUMBER: US/09/598,982C
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079,970
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 24
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (7)..(753)
US-09-598-982C-24

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

QY 1 GGGCCCCCGAGAAAAAGATCTGTCGGGGGTCAAGAGGCCCCCGAGGCAAGTGGCCCTGG 60
DB 113 GAGCCCCCGAGAAAGTGCATCCAGTATGGGCCCGTGAAGCTCAAGGCTCACTGCGAGGGC 54
QY 61 CAGGTGAGCCTGAGAGTCCACGGCCCATCTGATGCACTTCTGCGGGGGCTC 113
DB 53 CACTTGCTCTCTGGGGGGCCCTCTGACCCCGAGCAATTTCTTTCTCGAGGGGGCC 1

RESULT 15
US-09-598-982C-26/c
; Sequence 26, Application US/09598982C

GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506.104
CURRENT APPLICATION NUMBER: US/09/598,982C
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079,970
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 26
LENGTH: 771

```

; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-26

```

```

Query Match
Best Local Similarity 3.7%; Score 28.2; DB 1; Length 771;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

```

```

Qy 1 GGGCCCTCGAGAAAAGAAATGTCGGGGGTGAGAGAGCCCGGAGAGCAAGTGGCCCTGG 60
Db 113 GAGCCCCCGGAGAAAGTGCATCCAGTATGGCCGTGAGCTCAGGCTCACTCCGCAAGGGC 54
Qy 61 CAGGTGAGCCTGAGAGTCCAGCCGCAATPACTGATGCACTTTCGGGGGGCTC 113
Db 53 CACTTGTCTCTGGGGGCTCCTGACCCCGAGCGATTTCTTTCTCGAGGGGGCC 1

```

```

RESULT 16
US-09-598-982C-36/c
; Sequence 36, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendascho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSINS, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; PRIOR FILING DATE: 2000-06-21
; PRIORITY APPLICATION NUMBER: 09/079,970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 36
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-36

```

```

Query Match
Best Local Similarity 3.7%; Score 28.2; DB 1; Length 771;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

```

```

Qy 1 GGGCCCTCGAGAAAAGAAATGTCGGGGGTGAGAGAGCCCGGAGAGCAAGTGGCCCTGG 60
Db 113 GAGCCCCCGGAGAAAGTGCATCCAGTATGGCCGTGAGCTCAGGCTCACTCCGCAAGGGC 54
Qy 61 CAGGTGAGCCTGAGAGTCCAGCCGCAATPACTGATGCACTTTCGGGGGGCTC 113
Db 53 CACTTGTCTCTGGGGGCTCCTGACCCCGAGCGATTTCTTTCTCGAGGGGGCC 1

```

```

RESULT 17
US-09-598-982C-38/c
; Sequence 38, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendascho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSINS, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; PRIOR FILING DATE: 2000-06-21
; PRIORITY APPLICATION NUMBER: 09/079,970
; NUMBER OF SEQ ID NOS: 52

```

```

Query Match
Best Local Similarity 3.7%; Score 28.2; DB 1; Length 771;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

```

```

Qy 1 GGGCCCTCGAGAAAAGAAATGTCGGGGGTGAGAGAGCCCGGAGAGCAAGTGGCCCTGG 60
Db 113 GAGCCCCCGGAGAAAGTGCATCCAGTATGGCCGTGAGCTCAGGCTCACTCCGCAAGGGC 54
Qy 61 CAGGTGAGCCTGAGAGTCCAGCCGCAATPACTGATGCACTTTCGGGGGGCTC 113
Db 53 CACTTGTCTCTGGGGGCTCCTGACCCCGAGCGATTTCTTTCTCGAGGGGGCC 1

```

```

RESULT 18
US-09-598-982C-40/c
; Sequence 40, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendascho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSINS, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; PRIOR FILING DATE: 2000-06-21

```

```

Query Match
Best Local Similarity 3.7%; Score 28.2; DB 1; Length 771;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

```

```

; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 38
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-38

```

```

Query Match
Best Local Similarity 3.7%; Score 28.2; DB 1; Length 771;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

```

```

Qy 1 GGGCCCTCGAGAAAAGAAATGTCGGGGGTGAGAGAGCCCGGAGAGCAAGTGGCCCTGG 60
Db 113 GAGCCCCCGGAGAAAGTGCATCCAGTATGGCCGTGAGCTCAGGCTCACTCCGCAAGGGC 54
Qy 61 CAGGTGAGCCTGAGAGTCCAGCCGCAATPACTGATGCACTTTCGGGGGGCTC 113
Db 53 CACTTGTCTCTGGGGGCTCCTGACCCCGAGCGATTTCTTTCTCGAGGGGGCC 1

```

```

RESULT 19
US-09-598-982C-42/c
; Sequence 42, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendascho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSINS, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; PRIOR FILING DATE: 2000-06-21

```

```

Query Match
Best Local Similarity 3.7%; Score 28.2; DB 1; Length 771;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

```

```

Qy 1 GGGCCCTCGAGAAAAGAAATGTCGGGGGTGAGAGAGCCCGGAGAGCAAGTGGCCCTGG 60
Db 113 GAGCCCCCGGAGAAAGTGCATCCAGTATGGCCGTGAGCTCAGGCTCACTCCGCAAGGGC 54
Qy 61 CAGGTGAGCCTGAGAGTCCAGCCGCAATPACTGATGCACTTTCGGGGGGCTC 113
Db 53 CACTTGTCTCTGGGGGCTCCTGACCCCGAGCGATTTCTTTCTCGAGGGGGCC 1

```

```

RESULT 19
US-09-598-982C-42/c
; Sequence 42, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendascho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSINS, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; PRIOR FILING DATE: 2000-06-21

```

```

Query Match
Best Local Similarity 3.7%; Score 28.2; DB 1; Length 771;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

```

```

Qy 1 GGGCCCTCGAGAAAAGAAATGTCGGGGGTGAGAGAGCCCGGAGAGCAAGTGGCCCTGG 60
Db 113 GAGCCCCCGGAGAAAGTGCATCCAGTATGGCCGTGAGCTCAGGCTCACTCCGCAAGGGC 54
Qy 61 CAGGTGAGCCTGAGAGTCCAGCCGCAATPACTGATGCACTTTCGGGGGGCTC 113
Db 53 CACTTGTCTCTGGGGGCTCCTGACCCCGAGCGATTTCTTTCTCGAGGGGGCC 1

```

```

RESULT 19
US-09-598-982C-42/c
; Sequence 42, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendascho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSINS, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; PRIOR FILING DATE: 2000-06-21

```

```

Query Match
Best Local Similarity 3.7%; Score 28.2; DB 1; Length 771;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

```

```

; PRIOR APPLICATION NUMBER: 09/079,970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 42
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
US-09-598-982C-42

```

```

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

```

```

QY 1 GGGCCCTCGAGAAAAGATTCGTGGGGGTCCAGAGACCCCGAGAGCAAGTGGCCCTGG 60
DB 113 GAGCCCCCGGAGAGTGCATCCAGTATGGCCCGTGCATCTCCAGGCTCCAGCCGAGGC 54
QY 61 CAGGTAGCCTGAGAGTCCACGGCCCACTAGTGCATCTTCGCGGGGCTC 113
DB 53 CACTTGTCTCTGGGGGCTCTCTGACCCCGAGCATTTCTTTCTCGAGGGGCC 1

```

RESULT 20

```

US-09-598-982C-10/c
; Sequence 10, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Nilee, Andrew
; APPLICANT: Matfilt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 10
; LENGTH: 735
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(735)
US-09-598-982C-10

```

```

Query Match 3.1%; Score 24.2; DB 1; Length 735;
Best Local Similarity 52.8%; Pred. No. 18;
Matches 94; Conservative 0; Mismatches 78; Indels 6; Gaps 2;

```

```

QY 297 CTTGCTGAGAGCTGAGAGGCGGTGAAGTCTCCAGCCAGCTCCACACCGCTCCGCC 356
DB 442 CTTGCTTCAAGAGGAATATGCGGTGGAGGCGCTCATATTGTCACCA---TCGCCCCAGC 386
QY 357 CCGTGCCTCAGAGACCTTCCCGGGGGATGCCGTGTGGTGCATCGGCTGGGGCGA--- 413
DB 385 CAGTGAACCCAGCAGCGGATCCCGGGGGAGAGTCTGTGAGGCGAGGGGGGATGACCG 326
QY 414 TGTGCAATATGATGAGCGCTCCACCGCCATTTCTTGAAGCAGGTGAAGGTCCCG 471
DB 325 TGTGACATGTGCTGAGAGACTTCCACCGGCTCTCCAGCTCCACAGGAGGATGTCCGC 268

```

Search completed: August 26, 2005, 12:32:29  
Job time : 3.81314 secs

GenCore version 5.1.6  
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```

OM nucleic - nucleic search, using sw model
Run on: August 26, 2005, 12:31:55 ; Search time 2.81314 Seconds
(without alignments)
4.206 Million cell updates/sec
Title: US-09-598-982C-24
Perfect score: 771
Sequence: 1 gggccctcggagaaagat.....cgtgaagcggccgcctcgt 771
Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 0.5
Searched: 10 seqs, 7674 residues
Total number of hits satisfying chosen parameters: 20
Minimum DB seq length: 0
Maximum DB seq length: inf
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 20 summaries
Database : US09598982C_rev.seq:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Result No.	Score	Query Match	Length	DB ID	Description
1	771	100.0	771	1	US-09-598-982C-24
2	769.4	99.8	771	1	US-09-598-982C-40
3	766.2	99.4	771	1	US-09-598-982C-26
4	764.6	99.2	771	1	US-09-598-982C-42
5	761.4	98.8	771	1	US-09-598-982C-8
6	758.2	98.3	771	1	US-09-598-982C-22
7	756.6	98.1	771	1	US-09-598-982C-38
8	755	97.9	771	1	US-09-598-982C-20
9	753.4	97.7	771	1	US-09-598-982C-36
10	725.4	94.1	771	1	US-09-598-982C-10
11	28.2	3.7	771	1	US-09-598-982C-8
12	28.2	3.7	771	1	US-09-598-982C-20
13	28.2	3.7	771	1	US-09-598-982C-22
14	28.2	3.7	771	1	US-09-598-982C-24
15	28.2	3.7	771	1	US-09-598-982C-26
16	28.2	3.7	771	1	US-09-598-982C-36
17	28.2	3.7	771	1	US-09-598-982C-38
18	28.2	3.7	771	1	US-09-598-982C-40
19	28.2	3.7	771	1	US-09-598-982C-42
20	27.2	3.5	735	1	US-09-598-982C-10

ALIGNMENTS

```

RESULT 1
US-09-598-982C-24
; Sequence 24, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Nilee, Andrew
; APPLICANT: Matfilt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C

```

```

/ CURRENT FILING DATE: 2000-06-21
/ PRIOR APPLICATION NUMBER: 09/079,970
/ PRIOR FILING DATE: 1998-04-15
/ NUMBER OF SEQ ID NOS: 52
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 24
/ LENGTH: 771
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (7)..(753)
/ US-09-598-982C-24

```

Query Match 100.0%; Score 771; DB 1; Length 771;

Best Local Similarity 100.0%; Pred. No. 0.036; Indels 0; Gaps 0;

Matches 771; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

QY 1 GGGCCCCCTCGAGAAAAGAAATCGTGGGGGTGAGAGGCCCCCGAGAGCAAGTGGCCCTGG 60
DB 1 GGGCCCCCTCGAGAAAAGAAATCGTGGGGGTGAGAGGCCCCCGAGAGCAAGTGGCCCTGG 60
QY 61 CAGGTGAGCCTTGAAGTCCAGCGCCCAATCTGAGATGCACTTCTGGGGGGCTCCCTCATC 120
DB 61 CAGGTGAGCCTTGAAGTCCAGCGCCCAATCTGAGATGCACTTCTGGGGGGCTCCCTCATC 120
QY 121 CACCCCAAGTGGGTGTGACCGGAGCGCACTGCGTGGGACCGGAGCTCAAGATCTGGCC 180
DB 121 CACCCCAAGTGGGTGTGACCGGAGCGCACTGCGTGGGACCGGAGCTCAAGATCTGGCC 180
QY 122 CACCCCAAGTGGGTGTGACCGGAGCGCACTGCGTGGGACCGGAGCTCAAGATCTGGCC 180
DB 122 CACCCCAAGTGGGTGTGACCGGAGCGCACTGCGTGGGACCGGAGCTCAAGATCTGGCC 180
QY 181 GCGCTCAGGGGTCAACTGCGGGAGAGCACTCTACTACAGAGCAAGTGTGGCCGCTC 240
DB 181 GCGCTCAGGGGTCAACTGCGGGAGAGCACTCTACTACAGAGCAAGTGTGGCCGCTC 240
QY 181 GCGCTCAGGGGTCAACTGCGGGAGAGCACTCTACTACAGAGCAAGTGTGGCCGCTC 240
DB 181 GCGCTCAGGGGTCAACTGCGGGAGAGCACTCTACTACAGAGCAAGTGTGGCCGCTC 240
QY 241 AGCAGGATCATGTCGACCCAGATTCTACACCGCCAGATGAGAGCATGCGCTG 300
DB 241 AGCAGGATCATGTCGACCCAGATTCTACACCGCCAGATGAGAGCATGCGCTG 300
QY 301 CTGGAGCTGGAGAGCGCGGTGAAAGTCTCAGCCAGCTCAACCGTCAACCGTCCCTG 360
DB 301 CTGGAGCTGGAGAGCGCGGTGAAAGTCTCAGCCAGCTCAACCGTCAACCGTCCCTG 360
QY 361 GCGCTCAGAGACCTTCCCCCGGGAGTCCGCTGCGGTCACTGGCTGGGGCCGATGTGAC 420
DB 361 GCGCTCAGAGACCTTCCCCCGGGAGTCCGCTGCGGTCACTGGCTGGGGCCGATGTGAC 420
QY 421 AATGATGAGCGCTCCGACCGCCATTTCTGTGAAGCAGAGTGAAGGTCCTCAATGANA 480
DB 421 AATGATGAGCGCTCCGACCGCCATTTCTGTGAAGCAGAGTGAAGGTCCTCAATGANA 480
QY 481 AACCAATTTTGTGAGGCAAAATTAACAATTGGCGCTTACAGGGAGAGAGTCCGCAATC 540
DB 481 AACCAATTTTGTGAGGCAAAATTAACAATTGGCGCTTACAGGGAGAGAGTCCGCAATC 540
QY 541 GTCCGTTGACGATGCTGTGTGTCGGGAAACACCGGAGGAACTCAATGTAAGGCAAGCC 600
DB 541 GTCCGTTGACGATGCTGTGTGTCGGGAAACACCGGAGGAACTCAATGTAAGGCAAGCC 600
QY 601 GCGCGGACCTCTGTGTGTGAAGGTAATGCACTGGCTGCAAGCGGGGGTGTGAGCTGG 660
DB 601 GCGCGGACCTCTGTGTGTGAAGGTAATGCACTGGCTGCAAGCGGGGGTGTGAGCTGG 660
QY 661 GCGGAGGCTGTGTCAGGCGCAACCGGCTGCGATCTACACCGGTGTCACTACTACTGG 720
DB 661 GCGGAGGCTGTGTCAGGCGCAACCGGCTGCGATCTACACCGGTGTCACTACTACTGG 720
QY 721 GACTGGATCCACCACTATCTCCCAAAAAGCCGTGAAGCGGCGCCGCTGT 771
DB 721 GACTGGATCCACCACTATCTCCCAAAAAGCCGTGAAGCGGCGCCGCTGT 771

```

RESULT 2 US-09-598-982C-40

```

/ Sequence 40, Application US/09598982C
/ GENERAL INFORMATION:
/ APPLICANT: Niles, Andrew
/ APPLICANT: Maffitt, Mark
/ APPLICANT: Haak-Frendscho, Mary
/ TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASINS, ACTIVE SITE MUTANTS THEREOF,
/ FILE REFERENCE: 34506.104
/ CURRENT APPLICATION NUMBER: US/09/598,982C
/ PRIOR FILING DATE: 1998-04-15
/ NUMBER OF SEQ ID NOS: 52
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 40
/ LENGTH: 771
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (7)..(753)
/ US-09-598-982C-40

```

Query Match 99.8%; Score 769.4; DB 1; Length 771;

Best Local Similarity 99.9%; Pred. No. 0.037; Indels 1; Gaps 0;

Matches 770; Conservative 0; Mismatches 1; Indels 1; Gaps 0;

```

QY 1 GGGCCCCCTCGAGAAAAGAAATCGTGGGGGTGAGAGGCCCCCGAGAGCAAGTGGCCCTGG 60
DB 1 GGGCCCCCTCGAGAAAAGAAATCGTGGGGGTGAGAGGCCCCCGAGAGCAAGTGGCCCTGG 60
QY 61 CAGGTGAGCCTTGAAGTCCAGCGCCCAATCTGAGATGCACTTCTGGGGGGCTCCCTCATC 120
DB 61 CAGGTGAGCCTTGAAGTCCAGCGCCCAATCTGAGATGCACTTCTGGGGGGCTCCCTCATC 120
QY 121 CACCCCAAGTGGGTGTGACCGGAGCGCACTGCGTGGGACCGGAGCTCAAGATCTGGCC 180
DB 121 CACCCCAAGTGGGTGTGACCGGAGCGCACTGCGTGGGACCGGAGCTCAAGATCTGGCC 180
QY 181 GCGCTCAGGGGTCAACTGCGGGAGAGCACTCTACTACAGAGCAAGTGTGGCCGCTC 240
DB 181 GCGCTCAGGGGTCAACTGCGGGAGAGCACTCTACTACAGAGCAAGTGTGGCCGCTC 240
QY 181 GCGCTCAGGGGTCAACTGCGGGAGAGCACTCTACTACAGAGCAAGTGTGGCCGCTC 240
DB 181 GCGCTCAGGGGTCAACTGCGGGAGAGCACTCTACTACAGAGCAAGTGTGGCCGCTC 240
QY 241 AGCAGGATCATGTCGACCCAGATTCTACACCGCCAGATGAGAGCATGCGCTG 300
DB 241 AGCAGGATCATGTCGACCCAGATTCTACACCGCCAGATGAGAGCATGCGCTG 300
QY 301 CTGGAGCTGGAGAGCGCGGTGAAAGTCTCAGCCAGCTCAACCGTCAACCGTCCCTG 360
DB 301 CTGGAGCTGGAGAGCGCGGTGAAAGTCTCAGCCAGCTCAACCGTCAACCGTCCCTG 360
QY 361 GCGCTCAGAGACCTTCCCCCGGGAGTCCGCTGCGGTCACTGGCTGGGGCCGATGTGAC 420
DB 361 GCGCTCAGAGACCTTCCCCCGGGAGTCCGCTGCGGTCACTGGCTGGGGCCGATGTGAC 420
QY 421 AATGATGAGCGCTCCGACCGCCATTTCTGTGAAGCAGAGTGAAGGTCCTCAATGANA 480
DB 421 AATGATGAGCGCTCCGACCGCCATTTCTGTGAAGCAGAGTGAAGGTCCTCAATGANA 480
QY 481 AACCAATTTTGTGAGGCAAAATTAACAATTGGCGCTTACAGGGAGAGAGTCCGCAATC 540
DB 481 AACCAATTTTGTGAGGCAAAATTAACAATTGGCGCTTACAGGGAGAGAGTCCGCAATC 540
QY 541 GTCCGTTGACGATGCTGTGTGTCGGGAAACACCGGAGGAACTCAATGTAAGGCAAGCC 600
DB 541 GTCCGTTGACGATGCTGTGTGTCGGGAAACACCGGAGGAACTCAATGTAAGGCAAGCC 600
QY 601 GCGCGGACCTCTGTGTGTGAAGGTAATGCACTGGCTGCAAGCGGGGGTGTGAGCTGG 660
DB 601 GCGCGGACCTCTGTGTGTGAAGGTAATGCACTGGCTGCAAGCGGGGGTGTGAGCTGG 660
QY 661 GCGGAGGCTGTGTCAGGCGCAACCGGCTGCGATCTACACCGGTGTCACTACTACTGG 720
DB 661 GCGGAGGCTGTGTCAGGCGCAACCGGCTGCGATCTACACCGGTGTCACTACTACTGG 720

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Db 661 GCGGAGGGCTGTGCCCAAGCCGCGCTGGCATCTACACCCGTGTCACTACTACTG 720  
 Qy 721 GACTGATCCACCACTATGTCCCCAAAAGCCGTGAAGGGCGCCGCTGT 771  
 Db 721 GACTGATCCACCACTATGTCCCCAAAAGCCGTGAAGGGCGCCGCTGT 771

RESULT 3  
 US-09-598-982C-26  
 ; Sequence 26, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffitt, Mark  
 ; APPLICANT: Haak-Frendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,  
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; CURRENT FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; PRIOR FILING DATE: 1998-04-15  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 26  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 ; US-09-598-982C-26

Query Match 99.4%; Score 766.2; DB 1; Length 771;  
 Best Local Similarity 99.6%; Pred. No. 0.038; Mismatches 3; Indels 0; Gaps 0;  
 Matches 768; Conservative 0;

Qy 1 GGGCCCCCTCGAAGAAAAGAAATCGTGGGGGTCAAGAGGCCCCCGAGAGCAAGTGGCCCTGG 60  
 Db 1 GGGCCCCCTCGAAGAAAAGAAATCGTGGGGGTCAAGAGGCCCCCGAGAGCAAGTGGCCCTGG 60  
 Qy 61 CAGGTGAGGCTGAGAGTCCAGCGGCCCATATGAGATGCACTTCTGCGGGGGCTCCCTCATC 120  
 Db 61 CAGGTGAGGCTGAGAGTCCAGCGGCCCATATGAGATGCACTTCTGCGGGGGCTCCCTCATC 120  
 Qy 121 CACCCCAAGTGGGTCTGACCCGACGCACTGCGTGGGACCCGGACGTCAAGATTTGGCC 180  
 Db 121 CACCCCAAGTGGGTCTGACCCGACGCACTGCGTGGGACCCGGACGTCAAGATTTGGCC 180  
 Qy 181 GCCCTCAGGGGTGCACTGCGGAGAGCACTCTACTACAGAGCAAGCTGTGCGGGTTC 240  
 Db 181 GCCCTCAGGGGTGCACTGCGGAGAGCACTCTACTACAGAGCAAGCTGTGCGGGTTC 240  
 Qy 241 AGCAGATCATCTGTCAGCCCAAGTTCTACACCGCCCAAGATCCGAGGGGACATCGCCCTG 300  
 Db 241 AGCAGATCATCTGTCAGCCCAAGTTCTACACCGCCCAAGATCCGAGGGGACATCGCCCTG 300  
 Qy 301 CTGGAGCTGGAGGAGCCCGGTGAAGGTCTCAAGCCAGTCAAGCTGCACTGCCCCCT 360  
 Db 301 CTGGAGCTGGAGGAGCCCGGTGAAGGTCTCAAGCCAGTCAAGCTGCACTGCCCCCT 360  
 Qy 361 GCTTCAAGAGCCTTCCCCCGGGGATGCCGTGGGTCACTGGCTGGGGGAGATGTGGAC 420  
 Db 361 GCTTCAAGAGCCTTCCCCCGGGGATGCCGTGGGTCACTGGCTGGGGGAGATGTGGAC 420  
 Qy 421 AATGATGAGGCGCTCCCAAGCCATTTCTCTGTAAGAGGATGAAAGTCCCATTAATGAAA 480  
 Db 421 AATGATGAGGCGCTCCCAAGCCATTTCTCTGTAAGAGGATGAAAGTCCCATTAATGAAA 480  
 Qy 481 AACCAATTTGTGAGCGGAAAATACACACTTGGCCGCTTACACGAGAGAGAGAGTCCGATC 540  
 Db 481 AACCAATTTGTGAGCGGAAAATACACACTTGGCCGCTTACACGAGAGAGAGAGTCCGATC 540  
 Qy 541 GTCCTGAGACAGACTGTGTGTGCGGGAAACACCCGAGAGGAGACTATGTCAAGGGACGCC 600

Db 541 GTCCTGAGACAGACTGTGTGTGCGGGAAACACCCGAGAGGAGACTATGTCAAGGGACGCC 600  
 Qy 601 GCGGACCTGTGTGCAAGGTGAATGACACTTGGCTGCAAGCCGGCGGTGTGACTGG 660  
 Db 601 GCGGACCTGTGTGCAAGGTGAATGACACTTGGCTGCAAGCCGGCGGTGTGACTGG 660  
 Qy 661 GCGGAGGGGTGTGCCCAAGCCCAAGCCGCTGGCATCTACACCCGTGTCACTACTACTG 720  
 Db 661 GCGGAGGGGTGTGCCCAAGCCCAAGCCGCTGGCATCTACACCCGTGTCACTACTACTG 720  
 Qy 721 GACTGATCCACCACTATGTCCCCAAAAGCCGTGAAGGGCGCCGCTGT 771  
 Db 721 GACTGATCCACCACTATGTCCCCAAAAGCCGTGAAGGGCGCCGCTGT 771

RESULT 4  
 US-09-598-982C-42  
 ; Sequence 42, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffitt, Mark  
 ; APPLICANT: Haak-Frendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,  
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; CURRENT FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; PRIOR FILING DATE: 1998-04-15  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 42  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 ; US-09-598-982C-42

Query Match 99.2%; Score 764.6; DB 1; Length 771;  
 Best Local Similarity 99.5%; Pred. No. 0.039; Mismatches 4; Indels 0; Gaps 0;  
 Matches 767; Conservative 0;

Qy 1 GGGCCCCCTCGAAGAAAAGAAATCGTGGGGGTCAAGAGGCCCCCGAGAGCAAGTGGCCCTGG 60  
 Db 1 GGGCCCCCTCGAAGAAAAGAAATCGTGGGGGTCAAGAGGCCCCCGAGAGCAAGTGGCCCTGG 60  
 Qy 61 CAGGTGAGGCTGAGAGTCCAGCGGCCCATATGAGATGCACTTCTGCGGGGGCTCCCTCATC 120  
 Db 61 CAGGTGAGGCTGAGAGTCCAGCGGCCCATATGAGATGCACTTCTGCGGGGGCTCCCTCATC 120  
 Qy 121 CACCCCAAGTGGGTGTCACCGGAGGCACTGCGTGGGACCCGAGAGTCAAGGATTTGGCC 180  
 Db 121 CACCCCAAGTGGGTGTCACCGGAGGCACTGCGTGGGACCCGAGAGTCAAGGATTTGGCC 180  
 Qy 181 GCCCTCAGGGGTGCACTGCGGAGAGCACTCTACTACAGAGCAAGCTGTGCGGGTTC 240  
 Db 181 GCCCTCAGGGGTGCACTGCGGAGAGCACTCTACTACAGAGCAAGCTGTGCGGGTTC 240  
 Qy 241 AGCAGATCATCTGTCAGCCCAAGTTCTACACCGCCCAAGATCCGAGGGGACATCGCCCTG 300  
 Db 241 AGCAGATCATCTGTCAGCCCAAGTTCTACACCGCCCAAGATCCGAGGGGACATCGCCCTG 300  
 Qy 301 CTGGAGCTGGAGGAGCCCGGTGAAGGTCTCAGGCAAGTCAAGCTGCACTGCCCCCT 360  
 Db 301 CTGGAGCTGGAGGAGCCCGGTGAAGGTCTCAGGCAAGTCAAGCTGCACTGCCCCCT 360  
 Qy 361 GCTTCAAGAGCCTTCCCCCGGGGATGCCGTGGGTCACTGGCTGGGGGAGATGTGGAC 420  
 Db 361 GCTTCAAGAGCCTTCCCCCGGGGATGCCGTGGGTCACTGGCTGGGGGAGATGTGGAC 420

QY 421 AATGATGAGCGCTCCCAAGCCGATTTCTCTGAAAGCAGGTGAAGTTCCTCAATATGAA 480  
 DB 421 AATGATGAGCGCTCCCAAGCCGATTTCTCTGAAAGCAGGTGAAGTTCCTCAATATGAA 480  
 QY 481 AACCAATTTGTGAGCAAAATATACCACTTTGGGCGCTTACACGGGAGAGACGATCGGCATC 540  
 DB 481 AACCAATTTGTGAGCAAAATATACCACTTTGGGCGCTTACACGGGAGAGACGATCGGCATC 540  
 QY 541 GTCCTGAGCAGATGCTGT 600  
 DB 541 GTCCTGAGCAGATGCTGT 600  
 QY 601 GGGCGAATCTGT 660  
 DB 601 GGGCGAATCTGT 660  
 QY 661 GGGCGAATCTGT 720  
 DB 661 GGGCGAATCTGT 720  
 QY 721 GACTGGATCCACACTATGTCTCCCAAAAAGCCGTGAAGCGCCGCGTGT 771  
 DB 721 GACTGGATCCACACTATGTCTCCCAAAAAGCCGTGAAGCGCCGCGTGT 771

RESULT 5  
 US-09-598-982C-8  
 Sequence 8, Application US/09598982C  
 GENERAL INFORMATION:  
 APPLICANT: Niles, Andrew  
 APPLICANT: Maffitt, Mark  
 APPLICANT: Haak-Frendscho, Mary  
 TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPPASES, ACTIVE SITE MUTANTS THEREOF,  
 FILE REFERENCE: 34506.104  
 CURRENT APPLICATION NUMBER: US/09/598,982C  
 PRIOR FILING DATE: 2000-06-21  
 PRIOR APPLICATION NUMBER: 09/079,970  
 NUMBER OF SEQ ID NOS: 52  
 SOFTWARE: PatentIn version 3.3  
 SEQ ID NO 8  
 LENGTH: 771  
 TYPE: DNA  
 ORGANISM: Homo sapiens  
 FEATURE:  
 NAME/KEY: CDS  
 LOCATION: (7)..(753)  
 US-09-598-982C-8

Query Match 98.8%; Score 761.4; DB 1; Length 771;  
 Best Local Similarity 99.2%; Pred. No. 0.04;  
 Matches 765; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GGGCCCCCTGAGAAAAGAAATCGTGGGGGTCAAGAGAGCCCCCAAGAGCAAGTGGCCCTGG 60  
 DB 1 GGGCCCCCTGAGAAAAGAAATCGTGGGGGTCAAGAGAGCCCCCAAGAGCAAGTGGCCCTGG 60  
 QY 61 CAGGTGAGCTGAGAGTCCACGGCCCAATCTGATGCACTTCTGCGGGGGCTCCCTCATC 120  
 DB 61 CAGGTGAGCTGAGAGTCCACGGCCCAATCTGATGCACTTCTGCGGGGGCTCCCTCATC 120  
 QY 121 CACCCCACTGAGT 180  
 DB 121 CACCCCACTGAGT 180  
 QY 181 GGGCGAATCTGT 240  
 DB 181 GGGCGAATCTGT 240  
 QY 241 AGCAGGATCATGCTGACCCACAGTTCATACCGCCCAAGATGAGAGCGGACATCGCCCTG 300  
 DB 241 AGCAGGATCATGCTGACCCACAGTTCATACCGCCCAAGATGAGAGCGGACATCGCCCTG 300

QY 301 CTGAGCTGAGAGAGCGGTGAGAGTCTCCAGCCAGTCCACAGGGTCAAGCCCTGCCCCCT 360  
 DB 301 CTGAGCTGAGAGAGCGGTGAGAGTCTCCAGCCAGTCCACAGGGTCAAGCCCTGCCCCCT 360  
 QY 361 GCGTCAGAGACCTTCCCCCGGGGATGCGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 420  
 DB 361 GCGTCAGAGACCTTCCCCCGGGGATGCGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 420  
 QY 421 AATGATGAGCGCTCCCAAGCCGATTTCTCTGAAAGCAGGTGAAGTTCCTCAATATGAA 480  
 DB 421 AATGATGAGCGCTCCCAAGCCGATTTCTCTGAAAGCAGGTGAAGTTCCTCAATATGAA 480  
 QY 481 AACCAATTTGTGAGCAAAATATACCACTTTGGGCGCTTACACGGGAGAGACGATCGGCATC 540  
 DB 481 AACCAATTTGTGAGCAAAATATACCACTTTGGGCGCTTACACGGGAGAGACGATCGGCATC 540  
 QY 541 GTCCTGAGCAGATGCTGT 600  
 DB 541 GTCCTGAGCAGATGCTGT 600  
 QY 601 GGGCGAATCTGT 660  
 DB 601 GGGCGAATCTGT 660  
 QY 661 GGGCGAATCTGT 720  
 DB 661 GGGCGAATCTGT 720  
 QY 721 GACTGGATCCACACTATGTCTCCCAAAAAGCCGTGAAGCGCCGCGTGT 771  
 DB 721 GACTGGATCCACACTATGTCTCCCAAAAAGCCGTGAAGCGCCGCGTGT 771

RESULT 6  
 US-09-598-982C-22  
 Sequence 22, Application US/09598982C  
 GENERAL INFORMATION:  
 APPLICANT: Niles, Andrew  
 APPLICANT: Maffitt, Mark  
 APPLICANT: Haak-Frendscho, Mary  
 TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPPASES, ACTIVE SITE MUTANTS THEREOF,  
 FILE REFERENCE: 34506.104  
 CURRENT APPLICATION NUMBER: US/09/598,982C  
 PRIOR FILING DATE: 2000-06-21  
 PRIOR APPLICATION NUMBER: 09/079,970  
 NUMBER OF SEQ ID NOS: 52  
 SOFTWARE: PatentIn version 3.3  
 SEQ ID NO 22  
 LENGTH: 771  
 TYPE: DNA  
 ORGANISM: Homo sapiens  
 FEATURE:  
 NAME/KEY: CDS  
 LOCATION: (7)..(753)  
 US-09-598-982C-22

Query Match 98.3%; Score 758.2; DB 1; Length 771;  
 Best Local Similarity 99.0%; Pred. No. 0.041;  
 Matches 763; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 GGGCCCCCTGAGAAAAGAAATCGTGGGGGTCAAGAGAGCCCCCAAGAGCAAGTGGCCCTGG 60  
 DB 1 GGGCCCCCTGAGAAAAGAAATCGTGGGGGTCAAGAGAGCCCCCAAGAGCAAGTGGCCCTGG 60  
 QY 61 CAGGTGAGCTGAGAGTCCACGGCCCAATCTGATGCACTTCTGCGGGGGCTCCCTCATC 120  
 DB 61 CAGGTGAGCTGAGAGTCCACGGCCCAATCTGATGCACTTCTGCGGGGGCTCCCTCATC 120  
 QY 121 CACCCCACTGAGT 180  
 DB 121 CACCCCACTGAGT 180

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Db 121 CACCCCAAGTGGGTGCTGACCCGACGCGCACTGCGTGGGAACCGGACGCTCAAGATCTGCGCC 180
Qy 181 GCCCTCAGGGTGGAACTGCGGGGAGCAGCACTCTAATCAACAGGACCGAGCTGCTGCCGCTC 240
Db 181 GCCCTCAGGGTGGAACTGCGGGGAGCAGCACTCTAATCAACAGGACCGAGCTGCTGCCGCTC 240
Qy 241 AGCAGGATCATCTGTCACCCACAGTTCTACACCCGCAAGATCGGAGCCGGAATCGCCCTG 300
Db 241 AGCAGGATCATCTGTCACCCACAGTTCTACACCCGCAAGATCGGAGCCGGAATCGCCCTG 300
Qy 301 CTGAGCTGGAGGAGCGCGGTGAAGGTCTCCAGCCACAGTCCACAGCGTCAACCTCGCCCTC 360
Db 301 CTGAGCTGGAGGAGCGCGGTGAAGGTCTCCAGCCACAGTCCACAGCGTCAACCTCGCCCTC 360
Qy 361 GCCTCAGAGACTCTTCCCTCCGGGGAGTCCGCTGCTGGGTCACTGGCTGGGGCGATGAGAC 420
Db 361 GCCTCAGAGACTCTTCCCTCCGGGGAGTCCGCTGCTGGGTCACTGGCTGGGGCGATGAGAC 420
Qy 421 AATGATGAGCGCTCCCAACCGCATTTCTTGAAGCAGGTGAAGGTCCCATTAATGAA 480
Db 421 AATGATGAGCGCTCCCAACCGCATTTCTTGAAGCAGGTGAAGGTCCCATTAATGAA 480
Qy 481 AACCAATTTTGTGACGCAAAATACCACTTTGGCGCTTACACCGGAGACGACGTCGCGATC 540
Db 481 AACCAATTTTGTGACGCAAAATACCACTTTGGCGCTTACACCGGAGACGACGTCGCGATC 540
Qy 541 GTCCTGAGACGACTGCTGTCGCGGGAAACACCCGAGGAGACTCATGTCAAGGCAAGCC 600
Db 541 GTCCTGAGACGACTGCTGTCGCGGGAAACACCCGAGGAGACTCATGTCAAGGCAAGCC 600
Qy 601 GCGGACCTCTGTGTGACAGAGTGAATGGCACTGGCTGACAGCGCGGCTGTCAAGCTGG 660
Db 601 GCGGACCTCTGTGTGACAGAGTGAATGGCACTGGCTGACAGCGCGGCTGTCAAGCTGG 660
Qy 661 GGGGAGGGCTGTGTCACCGCCAAACCGGCTGGGATCTACACCGGATCTACTTGG 720
Db 661 GGGGAGGGCTGTGTCACCGCCAAACCGGCTGGGATCTACTTGG 720
Qy 721 GACTGGATCCACCACTAATGTCTCCCAAAAAGCCGTGAAGCGCCGCTGCT 771
Db 721 GACTGGATCCACCACTAATGTCTCCCAAAAAGCCGTGAAGCGCCGCTGCT 771

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RESULT 7
US-09-982C-38
; Sequence 38, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffett, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 38
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
US-09-598-982C-38

Query Match 98.1%; Score 756.6; DB 1; Length 771;
Best Local Similarity 98.8%; Pred. No. 0.042;
Matches 762; Conservative 0; Mismatches 9; Indels 0; Gaps 0;
Qy 1 GGGCCCCCGAAGAAAGATCTGTCGGGGGTCAAGAGGCCCCCGAAGCAAGTGGCCCTGG 60

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Db 1 GGGCCCCCGAAGAAAGATCTGTCGGGGGTCAAGAGGCCCCCGAAGCAAGTGGCCCTGG 60
Qy 61 CAGGTGAGGCTGAGGTCACAGGCCCATATGATGACACTTCTGCGGGGGCTCCCTCATC 120
Db 61 CAGGTGAGGCTGAGGTCACAGGCCCATATGATGACACTTCTGCGGGGGCTCCCTCATC 120
Qy 121 CACCCCAAGTGGGTCTGACCGCAGCGCACTGCGTGGGAACCGGACGTCAGAGATCGGCC 180
Db 121 CACCCCAAGTGGGTCTGACCGCAGCGCACTGCGTGGGAACCGGACGTCAGAGATCGGCC 180
Qy 181 GCCCTCAGGGTGGAACTGCGGGGAGCAGCACTCTAATCAACAGGACCGAGCTGCTGCCGCTC 240
Db 181 GCCCTCAGGGTGGAACTGCGGGGAGCAGCACTCTAATCAACAGGACCGAGCTGCTGCCGCTC 240
Qy 241 AGCAGGATCATCTGTCACCCACAGTTCTACACCCGCAAGATCGGAGCCGGAATCGCCCTG 300
Db 241 AGCAGGATCATCTGTCACCCACAGTTCTACACCCGCAAGATCGGAGCCGGAATCGCCCTG 300
Qy 301 CTGAGCTGGAGGAGCGCGGTGAAGGTCTCCAGCCACAGTCCACAGCGTCAACCTCGCCCTC 360
Db 301 CTGAGCTGGAGGAGCGCGGTGAAGGTCTCCAGCCACAGTCCACAGCGTCAACCTCGCCCTC 360
Qy 361 GCCTCAGAGACTCTTCCCTCCGGGGAGTCCGCTGCTGGGTCACTGGCTGGGGCGATGAGAC 420
Db 361 GCCTCAGAGACTCTTCCCTCCGGGGAGTCCGCTGCTGGGTCACTGGCTGGGGCGATGAGAC 420
Qy 421 AATGATGAGCGCTCCCAACCGCATTTCTTGAAGCAGGTGAAGGTCCCATTAATGAA 480
Db 421 AATGATGAGCGCTCCCAACCGCATTTCTTGAAGCAGGTGAAGGTCCCATTAATGAA 480
Qy 481 AACCAATTTTGTGACGCAAAATACCACTTTGGCGCTTACACCGGAGACGACGTCGCGATC 540
Db 481 AACCAATTTTGTGACGCAAAATACCACTTTGGCGCTTACACCGGAGACGACGTCGCGATC 540
Qy 541 GTCCTGAGACGACTGCTGTCGCGGGAAACACCCGAGGAGACTCATGTCAAGGCAAGCC 600
Db 541 GTCCTGAGACGACTGCTGTCGCGGGAAACACCCGAGGAGACTCATGTCAAGGCAAGCC 600
Qy 601 GCGGACCTCTGTGTGACAGAGTGAATGGCACTGGCTGACAGCGCGGCTGTCAAGCTGG 660
Db 601 GCGGACCTCTGTGTGACAGAGTGAATGGCACTGGCTGACAGCGCGGCTGTCAAGCTGG 660
Qy 661 GGGGAGGGCTGTGTCACCGCCAAACCGGCTGGGATCTACACCGGATCTACTTGG 720
Db 661 GGGGAGGGCTGTGTCACCGCCAAACCGGCTGGGATCTACTTGG 720
Qy 721 GACTGGATCCACCACTAATGTCTCCCAAAAAGCCGTGAAGCGCCGCTGCT 771
Db 721 GACTGGATCCACCACTAATGTCTCCCAAAAAGCCGTGAAGCGCCGCTGCT 771

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RESULT 8
US-09-598-982C-20
; Sequence 20, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffett, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 20
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:

```



NAME/KEY: CDS
LOCATION: (7)..(753)
US-09-598-982C-20

Query Match 97.9%; Score 755; DB 1; Length 771;
Best Local Similarity 98.7%; Pred. No. 0.042;
Matches 761; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

1 GGGCCCTCGAAGAAAAGATTCGTGGGGGTCAAGAGGCCCCCAAGAGCAATGGCCCTGG 60
1 GGGCCCTCGAAGAAAAGATTCGTGGGGGTCAAGAGGCCCCCAAGAGCAATGGCCCTGG 60
61 CAGGTGAGCCTGAGAGTCCACGGCCCATCTAGGATGCACTTCTGCGGGGGCTCCCTCATC 120
61 CAGGTGAGCCTGAGAGTCCACGGCCCATCTAGGATGCACTTCTGCGGGGGCTCCCTCATC 120
121 CACCCCACTGAGGAGTCTGACCCGACGGCACTGCGTGGGACCCGACCTCAAGATCTGGCC 180
121 CACCCCACTGAGGAGTCTGACCCGACGGCACTGCGTGGGACCCGACCTCAAGATCTGGCC 180
181 GCCCTCAAGGAGTCAATGCGGGAGAGCACTCTCACTAACAAGACCAAGCTTCCCTGGTTC 240
181 GCCCTCAAGGAGTCAATGCGGGAGAGCACTCTCACTAACAAGACCAAGCTTCCCTGGTTC 240
241 AGCAGGATCATGTCAGCCCAAGTTCTAACAAGCCAGATCGGAGCGGACATTCGCCCTG 300
241 AGCAGGATCATGTCAGCCCAAGTTCTAACAAGCCAGATCGGAGCGGACATTCGCCCTG 300
301 CTGAGCTGAGGAGGCGCGGTGAAGGTCTCCAGCCAGCTCAACGGTCAACCCCTGCCCTT 360
301 CTGAGCTGAGGAGGCGCGGTGAAGGTCTCCAGCCAGCTCAACGGTCAACCCCTGCCCTT 360
361 GCGCTCAAGAGACTTCCCGCGGGAGATCCGCTGCTGGGTCACTGGCTGGGGCGATGGAGC 420
361 GCGCTCAAGAGACTTCCCGCGGGAGATCCGCTGCTGGGTCACTGGCTGGGGCGATGGAGC 420
421 AATGATGAGCGGCTCCCAAGCAATTTCTCTGAAAGCAGGTGAAGGTCCCAATAATGAA 480
421 AATGATGAGCGGCTCCCAAGCAATTTCTCTGAAAGCAGGTGAAGGTCCCAATAATGAA 480
481 AACCAATTTTGTGACGCAAAATATACACTTTGGCGCTTACACGGAGACAGACGCTCCGATC 540
481 AACCAATTTTGTGACGCAAAATATACACTTTGGCGCTTACACGGAGACAGACGCTCCGATC 540
541 GTCCTGAGAGCACTTCCCGCGGGAGATCCGCTGCTGGGTCACTGGCTGGGGCGATGGAGC 420
541 GTCCTGAGAGCACTTCCCGCGGGAGATCCGCTGCTGGGTCACTGGCTGGGGCGATGGAGC 420
601 GGGCGAAGCTGAGTGTGCAAGGTAATGACCTGGCTGACAGGCGGGGGCTGGTCAAGCTGG 660
601 GGGCGAAGCTGAGTGTGCAAGGTAATGACCTGGCTGACAGGCGGGGGCTGGTCAAGCTGG 660
601 GGGCGAAGCTGAGTGTGCAAGGTAATGACCTGGCTGACAGGCGGGGGCTGGTCAAGCTGG 660
601 GGGCGAAGCTGAGTGTGCAAGGTAATGACCTGGCTGACAGGCGGGGGCTGGTCAAGCTGG 660
661 GGGCGAAGCTGAGTGTGCAAGGTAATGACCTGGCTGACAGGCGGGGGCTGGTCAAGCTGG 720
661 GGGCGAAGCTGAGTGTGCAAGGTAATGACCTGGCTGACAGGCGGGGGCTGGTCAAGCTGG 720
721 GACTGATCCACCACTATGTCCCAAAAAGCCGTAAGCGCGCGCTGCT 771
721 GACTGATCCACCACTATGTCCCAAAAAGCCGTAAGCGCGCGCTGCT 771

RESULT 9
US-09-598-982C-36
Sequence 36, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffei, Mark
APPLICANT: Haak-Frendsch, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506.104
CURRENT APPLICATION NUMBER: US/09/598,982C
CURRENT FILING DATE: 2000-06-21

PRIOR APPLICATION NUMBER: 09/079,970
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 36
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (7)..(753)
US-09-598-982C-36

Query Match 97.7%; Score 753.4; DB 1; Length 771;
Best Local Similarity 98.6%; Pred. No. 0.043;
Matches 760; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

1 GGGCCCTCGAAGAAAAGATTCGTGGGGGTCAAGAGGCCCCCAAGAGCAATGGCCCTGG 60
1 GGGCCCTCGAAGAAAAGATTCGTGGGGGTCAAGAGGCCCCCAAGAGCAATGGCCCTGG 60
61 CAGGTGAGCCTGAGAGTCCACGGCCCATCTAGGATGCACTTCTGCGGGGGCTCCCTCATC 120
61 CAGGTGAGCCTGAGAGTCCACGGCCCATCTAGGATGCACTTCTGCGGGGGCTCCCTCATC 120
121 CACCCCACTGAGGAGTCTGACCCGACGGCACTGCGTGGGACCCGACCTCAAGATCTGGCC 180
121 CACCCCACTGAGGAGTCTGACCCGACGGCACTGCGTGGGACCCGACCTCAAGATCTGGCC 180
181 GCCCTCAAGGAGTCAATGCGGGAGAGCACTCTCACTAACAAGACCAAGCTTCCCTGGTTC 240
181 GCCCTCAAGGAGTCAATGCGGGAGAGCACTCTCACTAACAAGACCAAGCTTCCCTGGTTC 240
241 AGCAGGATCATGTCAGCCCAAGTTCTAACAAGCCAGATCGGAGCGGACATTCGCCCTG 300
241 AGCAGGATCATGTCAGCCCAAGTTCTAACAAGCCAGATCGGAGCGGACATTCGCCCTG 300
301 CTGAGCTGAGGAGGCGCGGTGAAGGTCTCCAGCCAGCTCAACGGTCAACCCCTGCCCTT 360
301 CTGAGCTGAGGAGGCGCGGTGAAGGTCTCCAGCCAGCTCAACGGTCAACCCCTGCCCTT 360
361 GCGCTCAAGAGACTTCCCGCGGGAGATCCGCTGCTGGGTCACTGGCTGGGGCGATGGAGC 420
361 GCGCTCAAGAGACTTCCCGCGGGAGATCCGCTGCTGGGTCACTGGCTGGGGCGATGGAGC 420
421 AATGATGAGCGGCTCCCAAGCAATTTCTCTGAAAGCAGGTGAAGGTCCCAATAATGAA 480
421 AATGATGAGCGGCTCCCAAGCAATTTCTCTGAAAGCAGGTGAAGGTCCCAATAATGAA 480
481 AACCAATTTTGTGACGCAAAATATACACTTTGGCGCTTACACGGAGACAGACGCTCCGATC 540
481 AACCAATTTTGTGACGCAAAATATACACTTTGGCGCTTACACGGAGACAGACGCTCCGATC 540
541 GTCCTGAGAGCACTTCCCGCGGGAGATCCGCTGCTGGGTCACTGGCTGGGGCGATGGAGC 420
541 GTCCTGAGAGCACTTCCCGCGGGAGATCCGCTGCTGGGTCACTGGCTGGGGCGATGGAGC 420
601 GGGCGAAGCTGAGTGTGCAAGGTAATGACCTGGCTGACAGGCGGGGGCTGGTCAAGCTGG 660
601 GGGCGAAGCTGAGTGTGCAAGGTAATGACCTGGCTGACAGGCGGGGGCTGGTCAAGCTGG 660
601 GGGCGAAGCTGAGTGTGCAAGGTAATGACCTGGCTGACAGGCGGGGGCTGGTCAAGCTGG 660
601 GGGCGAAGCTGAGTGTGCAAGGTAATGACCTGGCTGACAGGCGGGGGCTGGTCAAGCTGG 660
661 GGGCGAAGCTGAGTGTGCAAGGTAATGACCTGGCTGACAGGCGGGGGCTGGTCAAGCTGG 720
661 GGGCGAAGCTGAGTGTGCAAGGTAATGACCTGGCTGACAGGCGGGGGCTGGTCAAGCTGG 720
721 GACTGATCCACCACTATGTCCCAAAAAGCCGTAAGCGCGCGCTGCT 771
721 GACTGATCCACCACTATGTCCCAAAAAGCCGTAAGCGCGCGCTGCT 771

RESULT 10
US-09-598-982C-10
Sequence 10, Application US/09598982C

```

/ GENERAL INFORMATION:
/ APPLICANT: Niles, Andrew
/ APPLICANT: Maffitt, Mark
/ APPLICANT: Haak-Frendscho, Mary
/ TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
/ TITLE OF INVENTION: AND METHODS OF MAKING SAME
/ FILE REFERENCE: 34506.104
/ CURRENT APPLICATION NUMBER: US/09/598,982C
/ CURRENT FILING DATE: 2000-06-21
/ PRIOR APPLICATION NUMBER: 09/079,970
/ PRIOR FILING DATE: 1998-04-15
/ NUMBER OF SEQ ID NOS: 52
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 10
/ LENGTH: 735
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (1)..(735)
/ US-09-598-982C-10

```

```

Query Match          94.1%; Score 725.4; DB 1; Length 735;
Best Local Similarity 99.2%; Pred. No. 0.059; Mismatches 6; Indels 0; Gaps 0;
Matches 729; Conservative 0;

```

```

QY 19 ATCGTGGGGGTCAGAGAGGCCCCCAGAGGCAAGTGGCCCTGGAGGTGAGCCCTGAGAGTTC 78
DB 1 ATCGTGGGGGTCAGAGAGGCCCCCAGAGGCAAGTGGCCCTGGAGGTGAGCCCTGAGAGTTC 60
QY 79 CAGGGCCCATATCGATGCACTTTGTGGGGGGCTCCCTCATCCACCCTCCAGGGTGGCTGG 138
DB 61 CAGGGCCCATATCGATGCACTTTGTGGGGGGCTCCCTCATCCACCCTCCAGGGTGGCTGG 120
QY 139 ACCGCAAGCCGACTGCGGGGAGCCGGAAGTGAAGTGGCCCTCCAGAGCCCTCCAGGGTGGCTGG 198
DB 121 ACCGCAAGCCGACTGCGGGGAGCCGGAAGTGAAGTGGCCCTCCAGAGCCCTCCAGGGTGGCTGG 180
QY 199 CCGGAGCAGCAGCCTTACTAACAAGACAGACTGCTGCGCGGTGACAGAGATCATCGTGCAC 258
DB 181 CCGGAGCAGCAGCCTTACTAACAAGACAGACTGCTGCGCGGTGACAGAGATCATCGTGCAC 240
QY 259 CCAAGTTCATACCCGCCAGATGGAGCGGGAATGCGCTGCTGGAGCTGGAGAGCCG 318
DB 241 CCAAGTTCATACCCGCCAGATGGAGCGGGAATGCGCTGCTGGAGCTGGAGAGCCG 300
QY 319 GTGAGAGTTCACAGCCAGCTCCAACAGGTGACCCCTGCGCTCCAGAGCCCTCCAGAGCCCTCC 378
DB 301 GTGAGAGTTCACAGCCAGCTCCAACAGGTGACCCCTGCGCTCCAGAGCCCTCCAGAGCCCTCC 360
QY 379 CCGGGGATGCGCTGCTGGGTCACTGGCTGGGGCGATGATGGAACAATGATGAGCCCTCCCA 438
DB 361 CCGGGGATGCGCTGCTGGGTCACTGGCTGGGGCGATGATGGAACAATGATGAGCCCTCCCA 420
QY 439 CCGGCATTTCTCTGAAAGAGGATGGATGCCCATTAATGAAAAACAATTTTGTGAGCA 498
DB 421 CCGGCATTTCTCTGAAAGAGGATGGATGCCCATTAATGAAAAACAATTTTGTGAGCA 480
QY 499 AAATACCACTTGGCGCTCAACGGGAGAGAGAGTCCGCAATGCTCCGTGAGCAATGCTG 558
DB 481 AAATACCACTTGGCGCTCAACGGGAGAGAGAGTCCGCAATGCTCCGTGAGCAATGCTG 540
QY 559 TGTGCCGGAAACAACCCGGAGGGAATCATGTCAAAGGCGACGCGCGGAGCCTTGTGTGTGC 618
DB 541 TGTGCCGGAAACAACCCGGAGGGAATCATGTCAAAGGCGACGCGCGGAGCCTTGTGTGTGC 600
QY 619 AAGGTGAATGGCACTGGCTGCAAGGGGGGGGTGTGATGAGCTGGGGCCAGAGGGCTGTGCCAG 678
DB 601 AAGGTGAATGGCACTGGCTGCAAGGGGGGGGTGTGATGAGCTGGGGCCAGAGGGCTGTGCCAG 660
QY 679 CCAACCGGCTGGCATCTACACCCGCTGCAACCTACTACTTGGAGCTGGATCCAACAATAT 728
DB 661 CCAACCGGCTGGCATCTACACCCGCTGCAACCTACTACTTGGAGCTGGATCCAACAATAT 720

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QY 739 GTCCCCAAAAGCCG 753
DB 721 GTCCCCAAAAGCCG 735

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```

RESULT 11
US-09-598-982C-8/c
; Sequence 8, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 8
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
/ US-09-598-982C-8

```

```

Query Match          3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

```

```

QY 1 GGGCCCTCTGAGAAAAGATGTCGGGGGGTCAAGAGGCCCCCAGAGGCAAGTGGCCCTGG 60
DB 113 GAGCCCCGGCAGAAAGTGCATCAAGTATGGCCCTGGAGACTCTAGGCTCACTGCCAGGGC 54
QY 61 CAGTGGCCCTGAGAGTCCAGCCCACTACTGATGCACTTCTGGCGGGGCTC 113
DB 53 CACTTGCCTCTGGGGGGCTCCAGACCCCGCAGAGATTTCTTTCAGAGGGGCC 1

```

```

RESULT 12
US-09-598-982C-20/c
; Sequence 20, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 20
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
/ US-09-598-982C-20

```

```

Query Match          3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

```

QY 1 GGGCCCTCGAGAAAAGATGTCGGGGGTGTCAGAGAGCCCCAGAGAGCAAGTGGCCCTGG 60  
 DB 113 GAGCCCCCGAGAAAGTGCATCCAGTATGGCCCTGATGACTCTCAGAGCTCAGCCCTG 54  
 QY 61 CAGGTGAGCCTGAGAGTCCACGGCCCATACCTGATGACCTTCTGCGGGGGGCTC 113  
 DB 53 CACTTGCTCTCGGGGGCCCTCTGACCCCCCGACGATTTCTTTCTCGAGGGGGCC 1

RESULT 13  
 US-09-598-982C-22/c  
 ; Sequence 22, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffitt, Mark  
 ; APPLICANT: Haak-Frendescho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSASES, ACTIVE SITE MUTANTS THEREOF,  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; PRIOR FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 22  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 US-09-598-982C-22

Query Match 3.7%; Score 28.2; DB 1; Length 771;  
 Best Local Similarity 53.1%; Pred. No. 17;  
 Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

QY 1 GGGCCCTCGAGAAAAGATGTCGGGGGTGTCAGAGAGCCCCAGAGAGCAAGTGGCCCTGG 60  
 DB 113 GAGCCCCCGAGAAAGTGCATCCAGTATGGCCCTGATGACTCTCAGAGCTCAGCCCTG 54  
 QY 61 CAGGTGAGCCTGAGAGTCCACGGCCCATACCTGATGACCTTCTGCGGGGGGCTC 113  
 DB 53 CACTTGCTCTCGGGGGCCCTCTGACCCCCCGACGATTTCTTTCTCGAGGGGGCC 1

RESULT 14  
 US-09-598-982C-24/c  
 ; Sequence 24, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffitt, Mark  
 ; APPLICANT: Haak-Frendescho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSASES, ACTIVE SITE MUTANTS THEREOF,  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; PRIOR FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 24  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 US-09-598-982C-24

Best Local Similarity 53.1%; Pred. No. 17;  
 Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

QY 1 GGGCCCTCGAGAAAAGATGTCGGGGGTGTCAGAGAGCCCCAGAGAGCAAGTGGCCCTGG 60  
 DB 113 GAGCCCCCGAGAAAGTGCATCCAGTATGGCCCTGATGACTCTCAGAGCTCAGCCCTG 54  
 QY 61 CAGGTGAGCCTGAGAGTCCACGGCCCATACCTGATGACCTTCTGCGGGGGGCTC 113  
 DB 53 CACTTGCTCTCGGGGGCCCTCTGACCCCCCGACGATTTCTTTCTCGAGGGGGCC 1

RESULT 15  
 US-09-598-982C-26/c  
 ; Sequence 26, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffitt, Mark  
 ; APPLICANT: Haak-Frendescho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSASES, ACTIVE SITE MUTANTS THEREOF,  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; PRIOR FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 26  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 US-09-598-982C-26

Query Match 3.7%; Score 28.2; DB 1; Length 771;  
 Best Local Similarity 53.1%; Pred. No. 17;  
 Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

QY 1 GGGCCCTCGAGAAAAGATGTCGGGGGTGTCAGAGAGCCCCAGAGAGCAAGTGGCCCTGG 60  
 DB 113 GAGCCCCCGAGAAAGTGCATCCAGTATGGCCCTGATGACTCTCAGAGCTCAGCCCTG 54  
 QY 61 CAGGTGAGCCTGAGAGTCCACGGCCCATACCTGATGACCTTCTGCGGGGGGCTC 113  
 DB 53 CACTTGCTCTCGGGGGCCCTCTGACCCCCCGACGATTTCTTTCTCGAGGGGGCC 1

RESULT 16  
 US-09-598-982C-36/c  
 ; Sequence 36, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffitt, Mark  
 ; APPLICANT: Haak-Frendescho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSASES, ACTIVE SITE MUTANTS THEREOF,  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; PRIOR FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 36  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)

US-09-598-982C-36

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

QY 1 GGGCCCCCTCGAAGAAAGATCGTCGGGGGTCAAGAGGCCCCCAGAGCAAGTGGCCCTGG 60
DB 113 GAGCCCCCGAGAAAGTGCATCCAGTATGGGCCCGTGACTCAGGCTCACCTGCCCCAGGGC 54
DB 53 CACTTGCTCTGGGGGCTCTCCAGACCCCGACGATTTCTTTCTCGAGGGGGCC 1

RESULT 17

US-09-598-982C-38/c
Sequence 38, Application US/09598982C
GENERAL INFORMATION:

APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506.104
CURRENT APPLICATION NUMBER: US/09/598,982C
CURRENT FILING DATE: 2000-06-21
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 38
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (7)..(753)
US-09-598-982C-38

Query Match 3.7%; Score 28.2; DB 1; Length 771;

Best Local Similarity 53.1%; Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;
QY 1 GGGCCCCCTCGAAGAAAGATCGTCGGGGGTCAAGAGGCCCCCAGAGCAAGTGGCCCTGG 60
DB 113 GAGCCCCCGAGAAAGTGCATCCAGTATGGGCCCGTGACTCAGGCTCACCTGCCCCAGGGC 54
QY 61 CAGGTGAGCCTGAGATGCCAGCGGCCCATPACTGATGCACTTCTGCGGGGGCTC 113
DB 53 CACTTGCTCTGGGGGCTCTCCAGACCCCGACGATTTCTTTCTCGAGGGGGCC 1

RESULT 18

US-09-598-982C-40/c
Sequence 40, Application US/09598982C
GENERAL INFORMATION:

APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506.104
CURRENT APPLICATION NUMBER: US/09/598,982C
CURRENT FILING DATE: 2000-06-21
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 40
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens

FEATURE:
NAME/KEY: CDS
LOCATION: (7)..(753)
US-09-598-982C-40

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;
QY 1 GGGCCCCCTCGAAGAAAGATCGTCGGGGGTCAAGAGGCCCCCAGAGCAAGTGGCCCTGG 60
DB 113 GAGCCCCCGAGAAAGTGCATCCAGTATGGGCCCGTGACTCAGGCTCACCTGCCCCAGGGC 54
QY 61 CAGGTGAGCCTGAGATGCCAGCGGCCCATPACTGATGCACTTCTGCGGGGGCTC 113
DB 53 CACTTGCTCTGGGGGCTCTCCAGACCCCGACGATTTCTTTCTCGAGGGGGCC 1

RESULT 19

US-09-598-982C-42/c
Sequence 42, Application US/09598982C
GENERAL INFORMATION:

APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506.104
CURRENT APPLICATION NUMBER: US/09/598,982C
CURRENT FILING DATE: 2000-06-21
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 42
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (7)..(753)
US-09-598-982C-42

Query Match 3.7%; Score 28.2; DB 1; Length 771;

Best Local Similarity 53.1%; Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;
QY 1 GGGCCCCCTCGAAGAAAGATCGTCGGGGGTCAAGAGGCCCCCAGAGCAAGTGGCCCTGG 60
DB 113 GAGCCCCCGAGAAAGTGCATCCAGTATGGGCCCGTGACTCAGGCTCACCTGCCCCAGGGC 54
QY 61 CAGGTGAGCCTGAGATGCCAGCGGCCCATPACTGATGCACTTCTGCGGGGGCTC 113
DB 53 CACTTGCTCTGGGGGCTCTCCAGACCCCGACGATTTCTTTCTCGAGGGGGCC 1

RESULT 20

US-09-598-982C-10/c
Sequence 10, Application US/09598982C
GENERAL INFORMATION:

APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506.104
CURRENT APPLICATION NUMBER: US/09/598,982C
CURRENT FILING DATE: 2000-06-21
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 10



```

Db      301 CTGGAAGCTGGAGGAGCCGGTGAAGGTCTCCAGCCCAAGTCCACACCGGTCCCTGCCCCCTT
Qy      361 GCCTCAGAGACCTTCCCCCGGGGATGCCGTGGGTCACTGGCTGGGGCCAGTGTGAC 420
Db      361 GCCTCAGAGACCTTCCCCCGGGGATGCCGTGGGTCACTGGCTGGGGCCAGTGTGAC 420
Qy      421 AATGATGAGCGCTCCCAACCCGCCATTTCTCTGAGCAGAGGTGAAGGTCCCATTAATGAA
Db      421 AATGATGAGCGCTCCCAACCCGCCATTTCTCTGAGCAGAGGTGAAGGTCCCATTAATGAA 480
Qy      481 AACCAATTGTTGACGGAAATATACACTTGGCGCTTACACGGGAGAACCGTCCGCAATC
Db      481 AACCAATTGTTGACGGAAATATACACTTGGCGCTTACACGGGAGAACCGTCCGCAATC 540
Qy      541 GTCCGTAAGCAGATGCTGTGTCGGGGAACACCCGGAGGACTCATGCCAAGAGACGCC
Db      541 GTCCGTAAGCAGATGCTGTGTCGGGGAACACCCGGAGGACTCATGCCAAGAGACGCC 600
Qy      601 GGGGACCACTGTGTGTGCAAGGTGAATGCACTGGCTGCAAGGCGGGCGGTGATCAGCTGG
Db      601 GGGGACCACTGTGTGTGCAAGGTGAATGCACTGGCTGCAAGGCGGGCGGTGATCAGCTGG 660
Qy      661 GGGGAGGGCTGTGTGTCAGCCCAACCCGGCTTGGCATCTACACCGGTGTCACTTACTTGG
Db      661 GGGGAGGGCTGTGTGTCAGCCCAACCCGGCTTGGCATCTACACCGGTGTCACTTACTTGG 720
Qy      721 GACTGATCCACCACTATGTCCCAAAAAGCGGTGAAGCGGGCCGGCTGTG
Db      721 GACTGATCCACCACTATGTCCCAAAAAGCGGTGAAGCGGGCCGGCTGTG 771

```

```

RESULT 2
US-09-598-982C-42
; Sequence 42, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Mafilit, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 42
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-42

```

```

Query Match          99.8%; Score 769.4; DB 1; Length 771;
Best Local Similarity 99.9%; Pred. No. 0.037;
Matches 770; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

Qy      1 GGGCCCCCTCGAAGAAAGAAATGTCGGGGGTCAAGAGGCCCCCAGAGCAAGTGGCCCTGG 60
Db      1 GGGCCCCCTCGAAGAAAGAAATGTCGGGGGTCAAGAGGCCCCCAGAGCAAGTGGCCCTGG 60
Qy      61 CAGGTGAGCTTGAAGAGTCCAGCGCCCACTATGATGATGACTTTCGGGGGGCTCCCTCANTC 120
Db      61 CAGGTGAGCTTGAAGAGTCCAGCGCCCACTATGATGATGACTTTCGGGGGGCTCCCTCANTC 120
Qy      61 CAGGTGAGCTTGAAGAGTCCAGCGCCCACTATGATGATGACTTTCGGGGGGCTCCCTCANTC 120
Db      61 CAGGTGAGCTTGAAGAGTCCAGCGCCCACTATGATGATGACTTTCGGGGGGCTCCCTCANTC 120
Qy      121 CACCCCAAGTGGGTGCTGACCGCAGCAGCACTGCGTGGAGCCGGAAGTCTGGCC 180
Db      121 CACCCCAAGTGGGTGCTGACCGCAGCAGCACTGCGTGGAGCCGGAAGTCTGGCC 180

```

```

Qy      181 GCCCTCAGAGGTCGAACCTGGGGAGCAGCACTCTTACTACAGAGACCAAGTCTGCCGGTTC 240
Db      181 GCCCTCAGAGGTCGAACCTGGGGAGCAGCACTCTTACTACAGAGACCAAGTCTGCCGGTTC 240
Qy      241 AGCAGGATATGTCGACCCCAAGTTTCAACCGGCCAAGATGAGGCGGACATCGCCCTG 300
Db      241 AGCAGGATATGTCGACCCCAAGTTTCAACCGGCCAAGATGAGGCGGACATCGCCCTG 300
Qy      301 CTGAGCTGGAAGAGCCGGTGAAGGTCTTCCAGCCAGTCCACAGCGTCAACCTTCCCTT 360
Db      301 CTGAGCTGGAAGAGCCGGTGAAGGTCTTCCAGCCAGTCCACAGCGTCAACCTTCCCTT 360
Qy      361 GCCTCAGAGACCTTCCCCCGGGAGTCCGTCTGGGTCACTGGCTGGGGCCAGTGTGAC
Db      361 GCCTCAGAGACCTTCCCCCGGGAGTCCGTCTGGGTCACTGGCTGGGGCCAGTGTGAC 420
Qy      421 AATGATGAGCGCTCCCAACCCGCCATTTCTCTGAAAGCAGGTGAAGGTCCCATTAATGAA
Db      421 AATGATGAGCGCTCCCAACCCGCCATTTCTCTGAAAGCAGGTGAAGGTCCCATTAATGAA 480
Qy      481 AACCAATTGTTGACGGAAATATACACTTGGCGCTTACACGGGAGAACCGTCCGCAATC
Db      481 AACCAATTGTTGACGGAAATATACACTTGGCGCTTACACGGGAGAACCGTCCGCAATC 540
Qy      541 GTCCGTAAGCAGATGCTGTGTCGGGGAACACCCGGAGGACTCATGCCAAGAGACGCC
Db      541 GTCCGTAAGCAGATGCTGTGTCGGGGAACACCCGGAGGACTCATGCCAAGAGACGCC 600
Qy      601 GGGGACCACTGTGTGTGCAAGGTGAATGCACTGGCTGCAAGGCGGGCGGTGATCAGCTGG
Db      601 GGGGACCACTGTGTGTGCAAGGTGAATGCACTGGCTGCAAGGCGGGCGGTGATCAGCTGG 660
Qy      661 GGGGAGGGCTGTGTGTCAGCCCAACCCGGCTTGGCATCTACACCGGTGTCACTTACTTGG
Db      661 GGGGAGGGCTGTGTGTCAGCCCAACCCGGCTTGGCATCTACACCGGTGTCACTTACTTGG 720
Qy      721 GACTGATCCACCACTATGTCCCAAAAAGCGGTGAAGCGGGCCGGCTGTG
Db      721 GACTGATCCACCACTATGTCCCAAAAAGCGGTGAAGCGGGCCGGCTGTG 771

```

```

RESULT 3
US-09-598-982C-24
; Sequence 24, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Mafilit, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 24
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-24

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Query Match          99.4%; Score 766.2; DB 1; Length 771;
Best Local Similarity 99.6%; Pred. No. 0.038;
Matches 768; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

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```

Qy      1 GGGCCCCCTCGAAGAAAGAAATGTCGGGGGTCAAGAGGCCCCCAGAGCAAGTGGCCCTGG 60
Db      1 GGGCCCCCTCGAAGAAAGAAATGTCGGGGGTCAAGAGGCCCCCAGAGCAAGTGGCCCTGG 60

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OY 61 CAGGTGAGCCTGAGAGTCCACGGCCCAATACTGGAATTCATTGCGGGGGCTCCCTCATC 120
DB 61 CAGGTGAGCCTGAGAGTCCACGGCCCAATACTGGAATTCATTGCGGGGGCTCCCTCATC 120
OY 121 CACCCCACTGAGTGGTGTGACCCGAGCGCACTGCGTGGGACCCGACGTCAGGATCTGGCC 180
DB 121 CACCCCACTGAGTGGTGTGACCCGAGCGCACTGCGTGGGACCCGACGTCAGGATCTGGCC 180
OY 181 GCGCTCAAGGATGTCAGTGGGAGGAGGACCTCTACTACCAAGACCAAGTGTGCGCGGTG 240
DB 181 GCGCTCAAGGATGTCAGTGGGAGGAGGACCTCTACTACCAAGACCAAGTGTGCGCGGTG 240
OY 241 AGCAGGATCATGTGTCACCCAGATTCTACACCGCCCAAGTGGGAGCGGACATTCGCGCTG 300
DB 241 AGCAGGATCATGTGTCACCCAGATTCTACACCGCCCAAGTGGGAGCGGACATTCGCGCTG 300
OY 301 CTGAGAGCTGAGAGAGCCGGTGAAGGTCTTCACGCACTGTCACACCGTCACTCCCTGCCCT 360
DB 301 CTGAGAGCTGAGAGAGCCGGTGAAGGTCTTCACGCACTGTCACACCGTCACTCCCTGCCCT 360
OY 361 GCGCTCAAGAGACCTTCCCGGGGAGATGCGGTGCTGAGTCACTGCGTGGGCGATGTGGAC 420
DB 361 GCGCTCAAGAGACCTTCCCGGGGAGATGCGGTGCTGAGTCACTGCGTGGGCGATGTGGAC 420
OY 421 AATGATGAGCGGCTCCACCGCCATTTCCTCTGAAAGCAGGTGAAGGTCCCAATAATGGA 480
DB 421 AATGATGAGCGGCTCCACCGCCATTTCCTCTGAAAGCAGGTGAAGGTCCCAATAATGGA 480
OY 481 AACCAATTTGTGAGCGCAAAATAATACCACTTGGCGCTTACACGGAGACGACGTCGCGCATC 540
DB 481 AACCAATTTGTGAGCGCAAAATAATACCACTTGGCGCTTACACGGAGACGACGTCGCGCATC 540
OY 541 GTCCGTGAGAGCAATGCTGTGTGTCGGGAAACACCCGGAGGAACTCATGCAAGAGACGCGC 600
DB 541 GTCCGTGAGAGCAATGCTGTGTGTCGGGAAACACCCGGAGGAACTCATGCAAGAGACGCGC 600
OY 601 GCGCGACCATGTGTGCAAGGATGGAATGGACCTGGCTGCAAGCGCGGCGTGGTCAAGCTGG 660
DB 601 GCGCGACCATGTGTGCAAGGATGGAATGGACCTGGCTGCAAGCGCGGCGTGGTCAAGCTGG 660
OY 661 GCGGAGGGCTGTGCCAGCCCAACCGGCTGACATACACCGCTGTCACTTACTACTTG 720
DB 661 GCGGAGGGCTGTGCCAGCCCAACCGGCTGACATACACCGCTGTCACTTACTACTTG 720
OY 721 GACTGATTCACCACTATGTCCCAAAAAGCCGTGAAGCGGCGCGCTGCT 771
DB 721 GACTGATTCACCACTATGTCCCAAAAAGCCGTGAAGCGGCGCGCTGCT 771

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US-09-598-982C-40
Query Match 99.5%; Score 764.6; DB 1; Length 771;
Best Local Similarity 99.5%; Pred. No. 0.039;
Matches 767; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
OY 1 GGGCCCTCGAGAAAAGATGTCGGGGGTGAGAGGCCCCCAGAGGCAAGTGGCCCTGG 60
DB 1 GGGCCCTCGAGAAAAGATGTCGGGGGTGAGAGGCCCCCAGAGGCAAGTGGCCCTGG 60
OY 61 CAGGTGAGCCTGAGAGTCCACGGCCCAATACTGGAATTCATTGCGGGGGCTCCCTCATC 120
DB 61 CAGGTGAGCCTGAGAGTCCACGGCCCAATACTGGAATTCATTGCGGGGGCTCCCTCATC 120
OY 121 CACCCCACTGAGTGGTGTGACCCGAGCGCACTGCGTGGGACCCGACGTCAGGATCTGGCC 180
DB 121 CACCCCACTGAGTGGTGTGACCCGAGCGCACTGCGTGGGACCCGACGTCAGGATCTGGCC 180
OY 181 GCGCTCAAGGATGTCAGTGGGAGGAGGACCTCTACTACCAAGACCAAGTGTGCGCGGTG 240
DB 181 GCGCTCAAGGATGTCAGTGGGAGGAGGACCTCTACTACCAAGACCAAGTGTGCGCGGTG 240
OY 241 AGCAGGATCATGTGTCACCCAGATTCTACACCGCCCAAGTGGGAGCGGACATTCGCGCTG 300
DB 241 AGCAGGATCATGTGTCACCCAGATTCTACACCGCCCAAGTGGGAGCGGACATTCGCGCTG 300
OY 301 CTGAGAGCTGAGAGAGCCGGTGAAGGTCTTCACGCACTGTCACACCGTCACTCCCTGCCCT 360
DB 301 CTGAGAGCTGAGAGAGCCGGTGAAGGTCTTCACGCACTGTCACACCGTCACTCCCTGCCCT 360
OY 361 GCGCTCAAGAGACCTTCCCGGGGAGATGCGGTGCTGAGTCACTGCGTGGGCGATGTGGAC 420
DB 361 GCGCTCAAGAGACCTTCCCGGGGAGATGCGGTGCTGAGTCACTGCGTGGGCGATGTGGAC 420
OY 421 AATGATGAGCGGCTCCACCGCCATTTCCTCTGAAAGCAGGTGAAGGTCCCAATAATGGA 480
DB 421 AATGATGAGCGGCTCCACCGCCATTTCCTCTGAAAGCAGGTGAAGGTCCCAATAATGGA 480
OY 481 AACCAATTTGTGAGCGCAAAATAATACCACTTGGCGCTTACACGGAGACGACGTCGCGCATC 540
DB 481 AACCAATTTGTGAGCGCAAAATAATACCACTTGGCGCTTACACGGAGACGACGTCGCGCATC 540
OY 541 GTCCGTGAGAGCAATGCTGTGTGTCGGGAAACACCCGGAGGAACTCATGCAAGAGACGCGC 600
DB 541 GTCCGTGAGAGCAATGCTGTGTGTCGGGAAACACCCGGAGGAACTCATGCAAGAGACGCGC 600
OY 601 GCGCGACCATGTGTGCAAGGATGGAATGGACCTGGCTGCAAGCGCGGCGTGGTCAAGCTGG 660
DB 601 GCGCGACCATGTGTGCAAGGATGGAATGGACCTGGCTGCAAGCGCGGCGTGGTCAAGCTGG 660
OY 661 GCGGAGGGCTGTGCCAGCCCAACCGGCTGACATACACCGCTGTCACTTACTACTTG 720
DB 661 GCGGAGGGCTGTGCCAGCCCAACCGGCTGACATACACCGCTGTCACTTACTACTTG 720
OY 721 GACTGATTCACCACTATGTCCCAAAAAGCCGTGAAGCGGCGCGCTGCT 771
DB 721 GACTGATTCACCACTATGTCCCAAAAAGCCGTGAAGCGGCGCGCTGCT 771

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RESULT 5
US-09-598-982C-8
; Sequence 8 Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendsch, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; PRIOR FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970

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; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 8
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; NAME/KEY: CDS
; LOCATION: (7)..(753)
US-09-598-982C-8

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```

Query Match      98.8%; Score 761.4; DB 1; Length 771;
Best Local Similarity 99.2%; Pred. No. 0.04;
Matches 765; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

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QY 1 GGGCCCCCTCGAAGAAAAGAAATCGTCGGGGGTCAAGAGGCCCCCGAGAGCAAGTGGCCCTGG 60
DB 1 GGGCCCCCTCGAAGAAAAGAAATCGTCGGGGGTCAAGAGGCCCCCGAGAGCAAGTGGCCCTGG 60
QY 61 CAGGTGAGGCTGAGAGTCCACCGGCCAATCTGGATGCACTTCTGCGGGGGCTCCCTCATC 120
DB 61 CAGGTGAGGCTGAGAGTCCACCGGCCAATCTGGATGCACTTCTGCGGGGGCTCCCTCATC 120
QY 121 CACCCCAAGTGGGTCTGACCCGAGGCACTGGTGGGACCCGGAAGTCAAGATCTGGCC 180
DB 121 CACCCCAAGTGGGTCTGACCCGAGGCACTGGTGGGACCCGGAAGTCAAGATCTGGCC 180
QY 181 GGCCTCAGAGGTGCAACTGCGGGAGCAGCACTCTAATCAAGGACCAAGCTGCGCCGTC 240
DB 181 GGCCTCAGAGGTGCAACTGCGGGAGCAGCACTCTAATCAAGGACCAAGCTGCGCCGTC 240
QY 241 AGCAGGATCATCGTGCACCCAGTTCACCCGCAAGTCCGAGCCGGAACATCGCCCTG 300
DB 241 AGCAGGATCATCGTGCACCCAGTTCACCCGCAAGTCCGAGCCGGAACATCGCCCTG 300
QY 301 CTGAGCTGAGAGGAGCCGGTGAAGTCTCCAGCCAGTCCACAGCCGTCACCCCTGCCCT 360
DB 301 CTGAGCTGAGAGGAGCCGGTGAAGTCTCCAGCCAGTCCACAGCCGTCACCCCTGCCCT 360
QY 361 GCCTCAGAGACTTCCCTCCCGGGGATGCGTGGGTCACTGGCTGGGGCGATGTGAGC 420
DB 361 GCCTCAGAGACTTCCCTCCCGGGGATGCGTGGGTCACTGGCTGGGGCGATGTGAGC 420
QY 421 AATGATGAGCGCTCCACCGCATTTCTCTGAAGCAGGTGAAGTCCCATATATGAA 480
DB 421 AATGATGAGCGCTCCACCGCATTTCTCTGAAGCAGGTGAAGTCCCATATATGAA 480
QY 481 AACCAATTTGTGACGCAAAATACCACTTTGGGGCTTACACCGGAGAACGATCCCGCATC 540
DB 481 AACCAATTTGTGACGCAAAATACCACTTTGGGGCTTACACCGGAGAACGATCCCGCATC 540
QY 541 GTCCTGACGACATGCTGTGTGCGGGGAAACCCCGAGGGACTCATGCCAAAGAGACGCG 600
DB 541 GTCCTGACGACATGCTGTGTGCGGGGAAACCCCGAGGGACTCATGCCAAAGAGACGCG 600
QY 601 GCGCGACCACTGCTGTGCAAGTGAATGCGACTTGGCTGCAAGGCGGGCGGTCAACTGG 660
DB 601 GCGCGACCACTGCTGTGCAAGTGAATGCGACTTGGCTGCAAGGCGGGCGGTCAACTGG 660
QY 661 GGGGAGGGCTGTGCGCAAGCCGCAACCGGCTGGATCTACACCCGTGCTACTACTTGG 720
DB 661 GGGGAGGGCTGTGCGCAAGCCGCAACCGGCTGGATCTACACCCGTGCTACTACTTGG 720
QY 721 GACTGATCCACCACTAATGTCCCAAAAAGCCGTGAAGCGGCGCGCTGCT 771
DB 721 GACTGATCCACCACTAATGTCCCAAAAAGCCGTGAAGCGGCGCGCTGCT 771

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RESULT 6
US-09-598-982C-22
; Sequence 22, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Miles, Andrew

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; APPLICANT: Mafiltz, Mark
; APPLICANT: Haak-Frendsch, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSINES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; PRIORITY FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 22
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; NAME/KEY: CDS
; LOCATION: (7)..(753)
US-09-598-982C-22

```

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Query Match      98.3%; Score 758.2; DB 1; Length 771;
Best Local Similarity 99.0%; Pred. No. 0.041;
Matches 763; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

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QY 1 GGGCCCCCTCGAAGAAAAGAAATCGTCGGGGGTCAAGAGGCCCCCGAGAGCAAGTGGCCCTGG 60
DB 1 GGGCCCCCTCGAAGAAAAGAAATCGTCGGGGGTCAAGAGGCCCCCGAGAGCAAGTGGCCCTGG 60
QY 61 CAGGTGAGGCTGAGAGTCCACCGGCCAATCTGGATGCACTTCTGCGGGGGCTCCCTCATC 120
DB 61 CAGGTGAGGCTGAGAGTCCACCGGCCAATCTGGATGCACTTCTGCGGGGGCTCCCTCATC 120
QY 121 CACCCCAAGTGGGTCTGACCCGAGGCACTGGTGGGACCCGGAAGTCAAGATCTGGCC 180
DB 121 CACCCCAAGTGGGTCTGACCCGAGGCACTGGTGGGACCCGGAAGTCAAGATCTGGCC 180
QY 181 GGCCTCAGAGGTGCAACTGCGGGAGCAGCACTCTAATCAAGGACCAAGCTGCGCCGTC 240
DB 181 GGCCTCAGAGGTGCAACTGCGGGAGCAGCACTCTAATCAAGGACCAAGCTGCGCCGTC 240
QY 241 AGCAGGATCATCGTGCACCCAGTTCACCCGCAAGTCCGAGCCGGAACATCGCCCTG 300
DB 241 AGCAGGATCATCGTGCACCCAGTTCACCCGCAAGTCCGAGCCGGAACATCGCCCTG 300
QY 301 CTGAGCTGAGAGGAGCCGGTGAAGTCTCCAGCCAGTCCACAGCCGTCACCCCTGCCCT 360
DB 301 CTGAGCTGAGAGGAGCCGGTGAAGTCTCCAGCCAGTCCACAGCCGTCACCCCTGCCCT 360
QY 361 GCCTCAGAGACTTCCCTCCCGGGGATGCGTGGGTCACTGGCTGGGGCGATGTGAGC 420
DB 361 GCCTCAGAGACTTCCCTCCCGGGGATGCGTGGGTCACTGGCTGGGGCGATGTGAGC 420
QY 421 AATGATGAGCGCTCCACCGCATTTCTCTGAAGCAGGTGAAGTCCCATATATGAA 480
DB 421 AATGATGAGCGCTCCACCGCATTTCTCTGAAGCAGGTGAAGTCCCATATATGAA 480
QY 481 AACCAATTTGTGACGCAAAATACCACTTTGGGGCTTACACCGGAGAACGATCCCGCATC 540
DB 481 AACCAATTTGTGACGCAAAATACCACTTTGGGGCTTACACCGGAGAACGATCCCGCATC 540
QY 541 GTCCTGACGACATGCTGTGTGCGGGGAAACCCCGAGGGACTCATGCCAAAGAGACGCG 600
DB 541 GTCCTGACGACATGCTGTGTGCGGGGAAACCCCGAGGGACTCATGCCAAAGAGACGCG 600
QY 601 GCGCGACCACTGCTGTGCAAGTGAATGCGACTTGGCTGCAAGGCGGGCGGTCAACTGG 660
DB 601 GCGCGACCACTGCTGTGCAAGTGAATGCGACTTGGCTGCAAGGCGGGCGGTCAACTGG 660
QY 661 GGGGAGGGCTGTGCGCAAGCCGCAACCGGCTGGATCTACACCCGTGCTACTACTTGG 720
DB 661 GGGGAGGGCTGTGCGCAAGCCGCAACCGGCTGGATCTACACCCGTGCTACTACTTGG 720
QY 721 GACTGATCCACCACTAATGTCCCAAAAAGCCGTGAAGCGGCGCGCTGCT 771
DB 721 GACTGATCCACCACTAATGTCCCAAAAAGCCGTGAAGCGGCGCGCTGCT 771

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721 GACTGATCCACCACTATGTCCCAAAAAGCCGTGAAGCGCCGCTGT 771

RESULT 7
US-09-598-982C-38
Sequence 38, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506.104
CURRENT APPLICATION NUMBER: US/09/598,982C
PRIOR FILING DATE: 2000-06-21
PRIORITY APPLICATION NUMBER: 09/079,970
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 38
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (7)..(753)
US-09-598-982C-38

Query Match 98.1%; Score 756.6; DB 1; Length 771;

Best Local Similarity 98.8%; Pred. No. 0.042;

Matches 762; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

1 GGGCCCCCTCGAGAAAAGAAATCGTGGGGGTCAAGAGGCCCCAGAGCAAGTGGCCCTTG
1 GGGCCCCCTCGAGAAAAGAAATCGTGGGGGTCAAGAGGCCCCAGAGCAAGTGGCCCTTG
61 CAGGTGAGCTGAGAGTCCAGCCCAATCTGAGTGCATTTGCGGGGGCTCCCTCATC 120
61 CAGGTGAGCTGAGAGTCCAGCCCAATCTGAGTGCATTTGCGGGGGCTCCCTCATC 120
61 CAGGTGAGCTGAGAGTCCAGCCCAATCTGAGTGCATTTGCGGGGGCTCCCTCATC 120
121 CACCCCAAGTGGGTGACCGGAGGCACTGGTGGGACCGGAGCTCAAGGATCTGGCC 180
121 CACCCCAAGTGGGTGACCGGAGGCACTGGTGGGACCGGAGCTCAAGGATCTGGCC 180
121 CACCCCAAGTGGGTGACCGGAGGCACTGGTGGGACCGGAGCTCAAGGATCTGGCC 180
181 GCGCTCAGGGTCAACTGCGGGAGCACTCTACTACAGAGCAAGCTGCTGCCGTC 240
181 GCGCTCAGGGTCAACTGCGGGAGCACTCTACTACAGAGCAAGCTGCTGCCGTC 240
241 AGCAGGATCATGTGTGACCCAGATTCTACACCGCCAGATGGAGCCGATCCGCTG 300
241 AGCAGGATCATGTGTGACCCAGATTCTACACCGCCAGATGGAGCCGATCCGCTG 300
241 AGCAGGATCATGTGTGACCCAGATTCTACACCGCCAGATGGAGCCGATCCGCTG 300
301 CTGAGGCTGAGAGGCGGTGAAGGTCTCAGCACTGTCAGACAGGTCACCCCTGCCCT 360
301 CTGAGGCTGAGAGGCGGTGAAGGTCTCAGCACTGTCAGACAGGTCACCCCTGCCCT 360
301 CTGAGGCTGAGAGGCGGTGAAGGTCTCAGCACTGTCAGACAGGTCACCCCTGCCCT 360
361 GCGTCAAGAGCCTTCCCGGGGATCCGCTGGTCACTGGCGGGGATGTGGAC 420
361 GCGTCAAGAGCCTTCCCGGGGATCCGCTGGTCACTGGCGGGGATGTGGAC 420
421 AATGATGAGCGCTCCACCGCCATTTCTCTGAGAGCAGAGTGAAGTCCCAATATGAA 480
421 AATGATGAGCGCTCCACCGCCATTTCTCTGAGAGCAGAGTGAAGTCCCAATATGAA 480
421 AATGATGAGCGCTCCACCGCCATTTCTCTGAGAGCAGAGTGAAGTCCCAATATGAA 480
481 AACCAATTTGAGCGCAAAATPACACTTTGGGCGCTTACAGGGAGACGACGTCGCAATC 540
481 AACCAATTTGAGCGCAAAATPACACTTTGGGCGCTTACAGGGAGACGACGTCGCAATC 540
541 GTCCGTGACGACATGCTGTGTGTGGGAAACCCCGAGGGAATCATGCCAAGAGAGCGCC 600
541 GTCCGTGACGACATGCTGTGTGTGGGAAACCCCGAGGGAATCATGCCAAGAGAGCGCC 600

601 GCGGAGCCACATGATGTGCAAGTGAATGAGCACTGGGTGCAAGGGCGGTGTGAGCTGG 660
601 GCGGAGCCACATGATGTGCAAGTGAATGAGCACTGGGTGCAAGGGCGGTGTGAGCTGG 660
661 GCGGAGGCGTGTGCCAGGCCCAACCGGCTGGCATCTACACCCTGTCTACCTACTCTTG 720
661 GCGGAGGCGTGTGCCAGGCCCAACCGGCTGGCATCTACACCCTGTCTACCTACTCTTG 720
721 GACTGATCCACCACTATGTCCCAAAAAGCCGTGAAGCGCCGCTGTGT 771
721 GACTGATCCACCACTATGTCCCAAAAAGCCGTGAAGCGCCGCTGTGT 771

RESULT 8

US-09-598-982C-20
Sequence 20, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506.104
CURRENT APPLICATION NUMBER: US/09/598,982C
PRIOR FILING DATE: 2000-06-21
PRIORITY APPLICATION NUMBER: 09/079,970
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 20
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (7)..(753)
US-09-598-982C-20

Query Match 97.9%; Score 755; DB 1; Length 771;

Best Local Similarity 98.7%; Pred. No. 0.042;

Matches 761; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

1 GGGCCCCCTCGAGAAAAGAAATCGTGGGGGTCAAGAGGCCCCAGAGCAAGTGGCCCTTG 60
1 GGGCCCCCTCGAGAAAAGAAATCGTGGGGGTCAAGAGGCCCCAGAGCAAGTGGCCCTTG 60
61 CAGGTGAGCTGAGAGTCCAGCCCAATCTGAGTGCATTTGCGGGGGCTCCCTCATC 120
61 CAGGTGAGCTGAGAGTCCAGCCCAATCTGAGTGCATTTGCGGGGGCTCCCTCATC 120
61 CAGGTGAGCTGAGAGTCCAGCCCAATCTGAGTGCATTTGCGGGGGCTCCCTCATC 120
121 CACCCCAAGTGGGTGACCGGAGGCACTGGTGGGACCGGAGCTCAAGGATCTGGCC 180
121 CACCCCAAGTGGGTGACCGGAGGCACTGGTGGGACCGGAGCTCAAGGATCTGGCC 180
121 CACCCCAAGTGGGTGACCGGAGGCACTGGTGGGACCGGAGCTCAAGGATCTGGCC 180
181 GCGCTCAGGGTCAACTGCGGGAGCACTCTACTACAGAGCAAGCTGCTGCCGTC 240
181 GCGCTCAGGGTCAACTGCGGGAGCACTCTACTACAGAGCAAGCTGCTGCCGTC 240
181 GCGCTCAGGGTCAACTGCGGGAGCACTCTACTACAGAGCAAGCTGCTGCCGTC 240
241 AGCAGGATCATGTGTGACCCAGATTCTACACCGCCAGATGGAGCCGATCCGCTG 300
241 AGCAGGATCATGTGTGACCCAGATTCTACACCGCCAGATGGAGCCGATCCGCTG 300
241 AGCAGGATCATGTGTGACCCAGATTCTACACCGCCAGATGGAGCCGATCCGCTG 300
301 CTGAGGCTGAGAGGCGGTGAAGGTCTCAGCACTGTCAGACAGGTCACCCCTGCCCT 360
301 CTGAGGCTGAGAGGCGGTGAAGGTCTCAGCACTGTCAGACAGGTCACCCCTGCCCT 360
301 CTGAGGCTGAGAGGCGGTGAAGGTCTCAGCACTGTCAGACAGGTCACCCCTGCCCT 360
361 GCGTCAAGAGCCTTCCCGGGGATCCGCTGGTCACTGGCGGGGATGTGGAC 420
361 GCGTCAAGAGCCTTCCCGGGGATCCGCTGGTCACTGGCGGGGATGTGGAC 420
421 AATGATGAGCGCTCCACCGCCATTTCTCTGAGAGCAGAGTGAAGTCCCAATATGAA 480
421 AATGATGAGCGCTCCACCGCCATTTCTCTGAGAGCAGAGTGAAGTCCCAATATGAA 480

QY 481 AACCAATTTGTGACCGCAAAATACCACTTGGCCCTTACACGGGAGACGATCCGCATC 540  
 DB 481 AACCAATTTGTGACCGCAAAATACCACTTGGCCCTTACACGGGAGACGATCCGCATC 540  
 QY 541 GTCCTGAGACGATGCTGTGTGCGGGGAAACCCGGAGGAGATCAATGCCAAGAGACGCC 600  
 DB 541 GTCCTGAGACGATGCTGTGTGCGGGGAAACCCGGAGGAGATCAATGCCAAGAGACGCC 600  
 QY 601 GGGGACCACTGGTGTGACCAAGTGAATGAGCACTGGCTGACGGGCGGCTGACGCTGG 660  
 DB 601 GGGGACCACTGGTGTGACCAAGTGAATGAGCACTGGCTGACGGGCGGCTGACGCTGG 660  
 QY 661 GGGGAGGCTGTGTGCGCCCAACCGGCTGGCATCTACACCCGTGTCACTACTTGG 720  
 DB 661 GGGGAGGCTGTGTGCGCCCAACCGGCTGGCATCTACACCCGTGTCACTACTTGG 720  
 QY 721 GACTGGATCCACCACTATGTCTCCCAAAAAGCCGTGAAGCGGCGGCTGCTGT 771  
 DB 721 GACTGGATCCACCACTATGTCTCCCAAAAAGCCGTGAAGCGGCGGCTGCTGT 771

RESULT 9  
 US-09-598-982C-36  
 ; Sequence 36, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Mafelt, Mark  
 ; APPLICANT: Haak-Frendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSINS, ACTIVE SITE MUTANTS THEREOF,  
 ; FILE OF INVENTION: AND METHODS OF MAKING SAME  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; CURRENT FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; PRIOR FILING DATE: 1998-04-15  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 36  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 US-09-598-982C-36

Query Match 97.7%; Score 753.4; DB 1; Length 771;  
 Best Local Similarity 98.6%; Pred. No. 0.043; Indels 11; Gaps 0;  
 Matches 760; Conservative 0; Mismatches 11; Indels 0; Gaps 0;  
 QY 1 GGGCCCCCGAAGAAATGTCGCGGGGTCAAGAGGCCCCCAGAGCAAGTGGCCCTGG 60  
 DB 1 GGGCCCCCGAAGAAAGAAATGTCGCGGGGTCAAGAGGCCCCCAGAGCAAGTGGCCCTGG 60  
 QY 61 CAGGTAGGCTGAGAGTCCAGCGGCCAATCTGATGATGCACTTGTCCGGGGGCTCCCTGATC 120  
 DB 61 CAGGTAGGCTGAGAGTCCAGCGGCCAATCTGATGATGCACTTGTCCGGGGGCTCCCTGATC 120  
 QY 121 CACCCCAAGTGGTGTGCTGACCGGACGCACTGGTGTGGACCGGAACTGCAAGATTCGGCC 180  
 DB 121 CACCCCAAGTGGTGTGCTGACCGGACGCACTGGTGTGGACCGGAACTGCAAGATTCGGCC 180  
 QY 181 GCCCTCAGGGTGAAGTGGCGGAGACGCACTCTACTACAGGACCAAGCTGTGCGGATC 240  
 DB 181 GCCCTCAGGGTGAAGTGGCGGAGACGCACTCTACTACAGGACCAAGCTGTGCGGATC 240  
 QY 241 AGCAGATCATCTGTGACCCCAAGTCTACACCGCCCAAGTCCGAGCGGACATCGCCCTG 300  
 DB 241 AGCAGATCATCTGTGACCCCAAGTCTACACCGCCCAAGTCCGAGCGGACATCGCCCTG 300  
 QY 301 CTGGAGTGGAGGAGCGGGTGAAGTGTCTCAAGCCAGTCCACACGGTCAACCTTGGCCCTT 360

DB 301 CTGGAGTGGAGAGCGGGTGAAGTGTCTCAAGCCAGTCCACAGGATCAACCTTGGCCCTT 360  
 QY 361 GCTCAGAGACCTTCCCGCGGGAGATGCGGTCTGGGTCACTGTGCGGGGATGTGAGC 420  
 DB 361 GCTCAGAGACCTTCCCGCGGGAGATGCGGTCTGGGTCACTGTGCGGGGATGTGAGC 420  
 QY 421 AATGATGAGCGCTTCCACCGGCATTTCTGTGAAGGAGTGAAGTGTCCCAATTAATGAA 480  
 DB 421 AATGATGAGCGCTTCCACCGGCATTTCTGTGAAGGAGTGAAGTGTCCCAATTAATGAA 480  
 QY 481 AACCAATTTGTGACCGCAAAATACCACTTGGCCCTTACACGGGAGACGATCCGCATC 540  
 DB 481 AACCAATTTGTGACCGCAAAATACCACTTGGCCCTTACACGGGAGACGATCCGCATC 540  
 QY 541 GTCCTGAGACGATGCTGTGTGCGGGGAAACCCGGAGGAGATCAATGCCAAGAGACGCC 600  
 DB 541 GTCCTGAGACGATGCTGTGTGCGGGGAAACCCGGAGGAGATCAATGCCAAGAGACGCC 600  
 QY 601 GGGGACCACTGGTGTGACCAAGTGAATGAGCACTGGCTGACGGGCGGCTGACGCTGG 660  
 DB 601 GGGGACCACTGGTGTGACCAAGTGAATGAGCACTGGCTGACGGGCGGCTGACGCTGG 660  
 QY 661 GGGGAGGCTGTGTGCGCCCAACCGGCTGGCATCTACACCCGTGTCACTACTTGG 720  
 DB 661 GGGGAGGCTGTGTGCGCCCAACCGGCTGGCATCTACACCCGTGTCACTACTTGG 720  
 QY 721 GACTGGATCCACCACTATGTCTCCCAAAAAGCCGTGAAGCGGCGGCTGCTGT 771  
 DB 721 GACTGGATCCACCACTATGTCTCCCAAAAAGCCGTGAAGCGGCGGCTGCTGT 771

RESULT 10  
 US-09-598-982C-10  
 ; Sequence 10, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Mafelt, Mark  
 ; APPLICANT: Haak-Frendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSINS, ACTIVE SITE MUTANTS THEREOF,  
 ; FILE OF INVENTION: AND METHODS OF MAKING SAME  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; CURRENT FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; PRIOR FILING DATE: 1998-04-15  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 10  
 ; LENGTH: 735  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (1)..(735)  
 US-09-598-982C-10

Query Match 94.1%; Score 725.4; DB 1; Length 735;  
 Best Local Similarity 99.2%; Pred. No. 0.059; Indels 6; Gaps 0;  
 Matches 729; Conservative 0; Mismatches 6; Indels 0; Gaps 0;  
 QY 19 ATGTCGGGGGTCAAGAGGCCCCCAGAGCAAGTGGCCCTGGCAAGTGAAGTGC 78  
 DB 1 ATGTCGGGGGTCAAGAGGCCCCCAGAGCAAGTGGCCCTGGCAAGTGAAGTGC 78  
 QY 79 CAGGGCCCACTAGTGAATGCACTTTCGCGGGGGCTCCCTCATCCACCCCAAGTGGGCTG 138  
 DB 61 CAGGGCCCACTAGTGAATGCACTTTCGCGGGGGCTCCCTCATCCACCCCAAGTGGGCTG 120  
 QY 139 ACCGACGCACTCGTGGGACCGGACGTCGAAAGATCTGGCGGCTTCAAGGATGCACTG 198  
 DB 121 ACCGACGCACTCGTGGGACCGGACGTCGAAAGATCTGGCGGCTTCAAGGATGCACTG 180  
 QY 199 CCGAGACAGCACTCTACTACAGAACCAAGCTGTGCGGGTCAAGAGATCATCTGTGAC 258

DB 181 CGGAGACGACCTTACTTACACGAGACGAGCTGCTCCGGGTACAGAGGATTCATCGTGCAC 240  
 OY 259 CCACAGTTTACACCGCCGAGATCGAGGAGCAATCGCCCTGTGTGAGAGTGGAGAGCCG 318  
 DB 241 CCACAGTTTCTACCGCCGAGATCGAGGAGCAATCGCCCTGTGTGAGAGTGGAGAGCCG 300  
 OY 319 GTGAAGTTCACAGCAGTCCACACGGTCAACCTTCCCTCCCTCCAGAGACTTTCC 378  
 DB 301 GTGAAGTTCACAGCAGTCCACACGGTCAACCTTCCCTCCCTCCAGAGACTTTCC 360  
 OY 379 CCGGGAGATCCCGTGTGTGAGTCTGAGTGGGGGAGATGAGCAATGATGAGGCGCTCCCA 438  
 DB 361 CCGGGAGATCCCGTGTGTGAGTCTGAGTGGGGGAGATGAGCAATGATGAGGCGCTCCCA 420  
 OY 439 CCGCCATTTCTGTGAAGCAGGTGAAGGTCCCATTAATGAAACCAATTTGTGACGCA 498  
 DB 421 CCGCCATTTCTGTGAAGCAGGTGAAGGTCCCATTAATGAAACCAATTTGTGACGCA 480  
 OY 499 AATATACACCTTGGGCGCTTACACGGGAGACGACGTCCGATGCTCCGTGACGACATGCTG 558  
 DB 481 AATATACACCTTGGGCGCTTACACGGGAGACGACGTCCGATGCTCCGTGACGACATGCTG 540  
 OY 559 TGTGCCGGGAGACCCCGGAGGACTCATGSCAAGAGACGCCCGGAGCACTGGTGTGTC 618  
 DB 541 TGTGCCGGGAGACCCCGGAGGACTCATGSCAAGGAGGACTCCGGAGAGGCGCTGTGTGTC 600  
 OY 619 AAGGTGAATGAGCACTGTGGTGAAGGCGGGGTGTGTCAGTGGGGGAGAGGGCTGTGCCAG 678  
 DB 601 AAGGTGAATGAGCACTGTGGTGAAGGCGGGGTGTGTCAGTGGGGGAGAGGGCTGTGCCAG 660  
 OY 679 CCCAACCGGCTGGCATCTACACCCGTGTCACTTACTTGTGATCGATCGACCAAT 738  
 DB 661 CCCAACCGGCTGGCATCTACACCCGTGTCACTTACTTGTGATCGATCGACCAAT 720  
 OY 739 GTCCCAAAAAGCCG 753  
 DB 721 GTCCCAAAAAGCCG 735

RESULT 11  
 US-09-598-982C-8/c  
 ; Sequence 8, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffitt, Mark  
 ; APPLICANT: Haak-Frendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSASES, ACTIVE SITE MUTANTS THEREOF,  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME  
 ; PRIORITY FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; CURRENT FILING DATE: 1998-04-15  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 8  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 ; US-09-598-982C-8

Query Match 3.7%; Score 28.2; DB 1; Length 771;  
 Best Local Similarity 53.1%; Pred. No. 17;  
 Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

OY 61 CAGGTGAGCCTGAGAGATCCACGGCCCATACTGATGACACTTCTGCGGGGCTC 113  
 DB 53 CACTTGTCTCTGGGGGCTCTGTGACCCCGGACGATTTCTTTTCTGAGAGGGGCC 1

RESULT 12  
 US-09-598-982C-20/c  
 ; Sequence 20, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffitt, Mark  
 ; APPLICANT: Haak-Frendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSASES, ACTIVE SITE MUTANTS THEREOF,  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME  
 ; PRIORITY FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; CURRENT FILING DATE: 1998-04-15  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 20  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 ; US-09-598-982C-20

Query Match 3.7%; Score 28.2; DB 1; Length 771;  
 Best Local Similarity 53.1%; Pred. No. 17;  
 Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

OY 1 GGGCCCTCGAAGAAAGATCGTGGGGGTCAAGAGGCCCCGAGAGCAAGTGGCCCTGG 60  
 DB 113 GAGCCCGGAGAAAGTGCATCAGTATGGCCGCTGAGACTCTCAGGCTCACCTGCCAGGGC 54

RESULT 13  
 US-09-598-982C-22/c  
 ; Sequence 22, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffitt, Mark  
 ; APPLICANT: Haak-Frendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSASES, ACTIVE SITE MUTANTS THEREOF,  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME  
 ; PRIORITY FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; CURRENT FILING DATE: 1998-04-15  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 22  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 ; US-09-598-982C-22

Query Match 3.7%; Score 28.2; DB 1; Length 771;  
 Best Local Similarity 53.1%; Pred. No. 17;  
 Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

OY 1 GGGCCCTCGAAGAAAGATCGTGGGGGTCAAGAGGCCCCGAGAGCAAGTGGCCCTGG 60

Db 113 GAGCCCCCGCAGAAAGTGCATTCAGTATGGCGCTCCTCAGGCTCACCTGCCAGGGC 54  
 QY 61 CAGGTGAGCCTTGAGAGTCCACGGCCCATACTGATGACACTTTCGGGGGGCTC 113  
 Db 53 CACTTGCTCTCGGGGGCTCCTGACCCCGCAGCAATCTTTTCTCGAGGGGGCC 1

RESULT 14  
 US-09-598-982C-24/c  
 ; Sequence 24, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffitt, Mark  
 ; APPLICANT: Haak-Frendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,  
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT FILING DATE: 2000-06-21  
 ; PRIORITY FILING DATE: 1998-04-15  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 24  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 US-09-598-982C-24

Query Match 3.7%; Score 28.2; DB 1; Length 771;  
 Best Local Similarity 53.1%; Pred. No. 17;  
 Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

QY 1 GGGCCCCCTCGAAGAAAAGATGTCGGGGGTCAGAGAGGCCCGCCAGAGCAAGTGGCCCTGG 60  
 Db 113 GAGCCCCCGCAGAAAGTGCATTCAGTATGGCGCTCCTCAGGCTCACCTGCCAGGGC 54  
 QY 61 CAGGTGAGCCTTGAGAGTCCACGGCCCATACTGATGACACTTTCGGGGGGCTC 113  
 Db 53 CACTTGCTCTCGGGGGCTCCTGACCCCGCAGCAATCTTTTCTCGAGGGGGCC 1

RESULT 15  
 US-09-598-982C-26/c  
 ; Sequence 26, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffitt, Mark  
 ; APPLICANT: Haak-Frendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,  
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT FILING DATE: 2000-06-21  
 ; PRIORITY FILING DATE: 1998-04-15  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 26  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 US-09-598-982C-26

Query Match 3.7%; Score 28.2; DB 1; Length 771;  
 Best Local Similarity 53.1%; Pred. No. 17;

Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;  
 QY 1 GGGCCCCCTCGAAGAAAAGATGTCGGGGGTCAGAGAGGCCCGCCAGAGCAAGTGGCCCTGG 60  
 Db 113 GAGCCCCCGCAGAAAGTGCATTCAGTATGGCGCTCCTCAGGCTCACCTGCCAGGGC 54  
 QY 61 CAGGTGAGCCTTGAGAGTCCACGGCCCATACTGATGACACTTTCGGGGGGCTC 113  
 Db 53 CACTTGCTCTCGGGGGCTCCTGACCCCGCAGCAATCTTTTCTCGAGGGGGCC 1

RESULT 16  
 US-09-598-982C-36/c  
 ; Sequence 36, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffitt, Mark  
 ; APPLICANT: Haak-Frendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,  
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT FILING DATE: 2000-06-21  
 ; PRIORITY FILING DATE: 1998-04-15  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 36  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 US-09-598-982C-36

Query Match 3.7%; Score 28.2; DB 1; Length 771;  
 Best Local Similarity 53.1%; Pred. No. 17;  
 Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

QY 1 GGGCCCCCTCGAAGAAAAGATGTCGGGGGTCAGAGAGGCCCGCCAGAGCAAGTGGCCCTGG 60  
 Db 113 GAGCCCCCGCAGAAAGTGCATTCAGTATGGCGCTCCTCAGGCTCACCTGCCAGGGC 54  
 QY 61 CAGGTGAGCCTTGAGAGTCCACGGCCCATACTGATGACACTTTCGGGGGGCTC 113  
 Db 53 CACTTGCTCTCGGGGGCTCCTGACCCCGCAGCAATCTTTTCTCGAGGGGGCC 1

RESULT 17  
 US-09-598-982C-38/c  
 ; Sequence 38, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffitt, Mark  
 ; APPLICANT: Haak-Frendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,  
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT FILING DATE: 2000-06-21  
 ; PRIORITY FILING DATE: 1998-04-15  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 38  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 US-09-598-982C-38

Query Match 3.7%; Score 28.2; DB 1; Length 771;  
 Best Local Similarity 53.1%; Pred. No. 17;

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

1 GGGCCCTTCGAGAAAAGATGTCGGGGGTCAAGAGGCCCCGAGAGCAAGTGGCCCTGG 60
113 GAGCCCCCGCAGAAAGTGCATCCAGTATGGCCGCTGACCTCCAGGCTCAGCCAGGSC 54
61 CAGGTAGCCTGAGAGTCCAGCGCCCATATCTGAGTCACTTTCGGGGGGCTC 113
53 CACTTGTCTCTGGGGGGCTCTGACCCCGGACGATTTCTTTCTCGAGGGGGCC 1

RESULT 18
US-09-598-982C-40/C
; Sequence 40, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; PRIOR FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 40
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
US-09-598-982C-40

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;
1 GGGCCCTTCGAGAAAAGATGTCGGGGGTCAAGAGGCCCCGAGAGCAAGTGGCCCTGG 60
113 GAGCCCCCGCAGAAAGTGCATCCAGTATGGCCGCTGACCTCCAGGCTCAGCCAGGSC 54
61 CAGGTAGCCTGAGAGTCCAGCGCCCATATCTGAGTCACTTTCGGGGGGCTC 113
53 CACTTGTCTCTGGGGGGCTCTGACCCCGGACGATTTCTTTCTCGAGGGGGCC 1

RESULT 19
US-09-598-982C-42/C
; Sequence 42, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; PRIOR FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 42
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:

NAME/KEY: CDS
LOCATION: (7)..(753)
US-09-598-982C-42

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;
1 GGGCCCTTCGAGAAAAGATGTCGGGGGTCAAGAGGCCCCGAGAGCAAGTGGCCCTGG 60
113 GAGCCCCCGCAGAAAGTGCATCCAGTATGGCCGCTGACCTCCAGGCTCAGCCAGGSC 54
61 CAGGTAGCCTGAGAGTCCAGCGCCCATATCTGAGTCACTTTCGGGGGGCTC 113
53 CACTTGTCTCTGGGGGGCTCTGACCCCGGACGATTTCTTTCTCGAGGGGGCC 1

RESULT 20
US-09-598-982C-10/C
; Sequence 10, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; PRIOR FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 10
; LENGTH: 735
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(735)
US-09-598-982C-10

Query Match 3.5%; Score 27.2; DB 1; Length 735;
Best Local Similarity 52.9%; Pred. No. 18;
Matches 100; Conservative 0; Mismatches 83; Indels 6; Gaps 2;
286 GCGGACATCGCCCTGCTGAGCTGAGAGCCGGTGAAGTCTCCAGCCAGTCCACAG 345
453 GGGGACCTTCACTGCTTCAAGAGAAATGGGGGAGGGGCTCATATTGTCCACA-- 396
346 GTCAACCTGCCCCCTGCTCAAGACCTTCCCCCGGGGAGTCCGTGGTCACTGGC 405
395 -TCCGCCAGCAGTACCCAGCAACCGCATCCCCGGGGGAAAGTCTCTGAGGCAAGGG 337
406 TGGGGCGA---TGTGGAATGATGAGGGCCTCCACCGCATTTTCTGAGGAGGTTG 462
336 CAGGTGACCGGTGTGAGAGCTGAGAGCCTTCAACCGGCTTCCAGACTCCAGAGGGC 277
463 AAGGTCCCC 471
276 GATGTCCGC 268

Search completed: August 26, 2005, 12:32:32
Job time : 3.81314 secs

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OM nucleic - nucleic search, using sw model
Run on: August 26, 2005, 12:31:55 ; Search time 2.81314 Seconds

(without alignments)  
4.206 Million cell updates/sec

Title: US-09-598-982C-36  
Perfect score: 771  
Sequence: 1 gggccccctcagagaaagaat.....cgtgaagcgcccgctcgt 771

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 0.5  
Searched: 10 seqs, 7674 residues  
Total number of hits satisfying chosen parameters: 20

Minimum DB seq length: 0  
Maximum DB seq length: inf  
Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 200 summaries

Database : US09598982C\_rev.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length DB	ID	Description
1	771	100.0	771	1	US-09-598-982C-36
2	769.4	99.8	771	1	US-09-598-982C-20
3	763	99.0	771	1	US-09-598-982C-8
4	761.4	98.8	771	1	US-09-598-982C-38
5	759.8	98.5	771	1	US-09-598-982C-22
6	755	97.9	771	1	US-09-598-982C-40
7	755	97.9	771	1	US-09-598-982C-42
8	753.4	97.7	771	1	US-09-598-982C-24
9	753.4	97.7	771	1	US-09-598-982C-26
10	727	94.3	735	1	US-09-598-982C-10
11	32.4	4.2	771	1	US-09-598-982C-20
12	32.4	4.2	771	1	US-09-598-982C-36
13	28.2	3.7	771	1	US-09-598-982C-8
14	28.2	3.7	771	1	US-09-598-982C-22
15	28.2	3.7	771	1	US-09-598-982C-24
16	28.2	3.7	771	1	US-09-598-982C-26
17	28.2	3.7	771	1	US-09-598-982C-38
18	28.2	3.7	771	1	US-09-598-982C-40
19	28.2	3.7	771	1	US-09-598-982C-42
20	27.6	3.6	735	1	US-09-598-982C-10

ALIGNMENTS

RESULT 1  
US-09-598-982C-36  
; Sequence 36, Application US/09598982C  
; GENERAL INFORMATION:  
; APPLICANT: Niles, Andrew  
; APPLICANT: Maffitt, Mark  
; APPLICANT: Haak-Frendescho, Mary  
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,  
; TITLE OF INVENTION: AND METHODS OF MAKING SAME  
; FILE REFERENCE: 34506.104  
; CURRENT APPLICATION NUMBER: US/09/598,982C  
; CURRENT FILING DATE: 2000-06-21  
; PRIOR APPLICATION NUMBER: 09/079,970  
; PRIOR FILING DATE: 1998-04-15  
; NUMBER OF SEQ ID NOS: 52  
; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 36  
; LENGTH: 771  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (7)..(753)  
US-09-598-982C-36

Query Match 100.0%; Score 771; DB 1; Length 771;  
Best Local Similarity 100.0%; Pred. No. 0.0316;  
Matches 771; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	GGGCCCCCTCAGAAAAAATGCTGGGGGTCAAGAGGCCCCAGAGGCAAGTGGCCCTGG	60
DB	1	GGGCCCCCTCAGAAAAAATGCTGGGGGTCAAGAGGCCCCAGAGGCAAGTGGCCCTGG	60
QY	61	CAGTGAAGCTGAGAGTCCAGGGCCCATACAGATGCACTTCGCGGGGGGCTCCCTCATC	120
DB	61	CAGTGAAGCTGAGAGTCCAGGGCCCATACAGATGCACTTCGCGGGGGGCTCCCTCATC	120
QY	121	CACCCCAAGTGGGTCTGACCGCCGCGCGTGTGGAGACCGGACGTCAAGATCTGGCC	180
DB	121	CACCCCAAGTGGGTCTGACCGCCGCGCGTGTGGAGACCGGACGTCAAGATCTGGCC	180
QY	181	GCCTCAGAGGCTGCAACTGGGGGAGCAGCACTTCTATCTACAGACCACTGTGGCGTTC	240
DB	181	GCCTCAGAGGCTGCAACTGGGGGAGCAGCACTTCTATCTACAGACCACTGTGGCGTTC	240
QY	241	AGCAGATCATGTCACCCACAGTTCTTACACCCGCCAAGTCCGAGGAGCATCGCCCTG	300
DB	241	AGCAGATCATGTCACCCACAGTTCTTACACCCGCCAAGTCCGAGGAGCATCGCCCTG	300
QY	301	CTGAGAGCTGAGAGAGCCGGTGAACGTCCTCAGCCACGTCACACCGTCACTTGGCCCTT	360
DB	301	CTGAGAGCTGAGAGAGCCGGTGAACGTCCTCAGCCACGTCACACCGTCACTTGGCCCTT	360
QY	361	GCCTCAGAGAGCTTTCCTCCCGGGGATGCGGCTGTGCTGCTGCTGCTGCTGCTGCTG	420
DB	361	GCCTCAGAGAGCTTTCCTCCCGGGGATGCGGCTGTGCTGCTGCTGCTGCTGCTGCTG	420
QY	421	AATGATGAGCGCCCTCCACCCGCAATTTCTCTGAAGCAGTGAAGTCCCAATATGAA	480
DB	421	AATGATGAGCGCCCTCCACCCGCAATTTCTCTGAAGCAGTGAAGTCCCAATATGAA	480
QY	481	AAACAATTGTGACGCAAAATATACCACTTGGCGCTTACCGGAGACGATCGGCATTC	540
DB	481	AAACAATTGTGACGCAAAATATACCACTTGGCGCTTACCGGAGACGATCGGCATTC	540
QY	541	GTCCGTGACGATGCTGTGTGTCGGGAAACCCGAGGAGCTCATYGCCAGGGCCATCC	600
DB	541	GTCCGTGACGATGCTGTGTGTCGGGAAACCCGAGGAGCTCATYGCCAGGGCCATCC	600
QY	601	GGAGGGGGCCCTGATGTCGAAGGTGAATGGCACTGGCTGCAAGGGCGGCTGACCTGG	660
DB	601	GGAGGGGGCCCTGATGTCGAAGGTGAATGGCACTGGCTGCAAGGGCGGCTGACCTGG	660
QY	661	GGCAGAGGGCTGTGCCCAAGCCAGCCGCTGGATCTACCCCGTGTCACTTACTTGG	720
DB	661	GGCAGAGGGCTGTGCCCAAGCCAGCCGCTGGATCTACCCCGTGTCACTTACTTGG	720
QY	721	GACTGGATTCACCACTATGTCCTCCAAAAAAGCCGTGAAGCGGGCGGCTGCT	771
DB	721	GACTGGATTCACCACTATGTCCTCCAAAAAAGCCGTGAAGCGGGCGGCTGCT	771

RESULT 2  
US-09-598-982C-20  
; Sequence 20, Application US/09598982C  
; GENERAL INFORMATION:  
; APPLICANT: Niles, Andrew  
; APPLICANT: Maffitt, Mark  
; APPLICANT: Haak-Frendescho, Mary

```

/ TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
/ FILE REFERENCE: 34506.104
/ CURRENT APPLICATION NUMBER: US/09/598,982C
/ PRIORITY FILING DATE: 2000-06-21
/ PRIOR APPLICATION NUMBER: 09/079,970
/ NUMBER OF SEQ ID NOS: 52
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 20
/ LENGTH: 771
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ NAME/KEY: CDS
/ LOCATION: (7)..(753)
/ US-09-598-982C-20

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Query Match          99.8%; Score 769.4; DB 1; Length 771;
Best Local Similarity 99.9%; Pred. No. 0.036;
Matches 770; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Oy 1 GGGCCCTCGAAGAAAAGAAATCGTGGGGGTGAGGAGGCCCGGAGGAAAGTGGCCCTGG 60
Db 1 GGGCCCTCGAAGAAAAGAAATCGTGGGGGTGAGGAGGCCCGGAGGAAAGTGGCCCTGG 60
Oy 61 CAGGTGAGGCTGAGAGTCCAGGGCCCAATGAGTGAATGCTTGTGGGGGGCTCCCTCATC 120
Db 61 CAGGTGAGGCTGAGAGTCCAGGGCCCAATGAGTGAATGCTTGTGGGGGGCTCCCTCATC 120
Oy 121 CACCCCACTGAGGAGTCCAGGGCCCAATGAGTGAATGCTTGTGGGGGGCTCCCTCATC 180
Db 121 CACCCCACTGAGGAGTCCAGGGCCCAATGAGTGAATGCTTGTGGGGGGCTCCCTCATC 180
Oy 181 GCGCTCAGGAGTCCAGGGCCCAATGAGTGAATGCTTGTGGGGGGCTCCCTCATC 240
Db 181 GCGCTCAGGAGTCCAGGGCCCAATGAGTGAATGCTTGTGGGGGGCTCCCTCATC 240
Oy 241 AACAGAGATCATGTCGACCCAGGTTCTACCCGCAATGGAGCCGAAATGCGCCCTG 300
Db 241 AACAGAGATCATGTCGACCCAGGTTCTACCCGCAATGGAGCCGAAATGCGCCCTG 300
Oy 301 CTGAGAGCTGAGAGGCGGTTGAAAGTCTTCAAGCCAGTCCAGCGTCCCTGCCCCCT 360
Db 301 CTGAGAGCTGAGAGGCGGTTGAAAGTCTTCAAGCCAGTCCAGCGTCCCTGCCCCCT 360
Oy 361 GCGCTCAGAGAGCTTCCCGGGGAGTCCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 420
Db 361 GCGCTCAGAGAGCTTCCCGGGGAGTCCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 420
Oy 421 AATGATGAGGCGCTCCAGCCGCAATTTCTTGAAGAGAGTGAAGTCCCAATATGAA 480
Db 421 AATGATGAGGCGCTCCAGCCGCAATTTCTTGAAGAGAGTGAAGTCCCAATATGAA 480
Oy 481 AACCAATTTGTGAGCGCAAAATATACCACTTGGCGCTTACCGGAGAGCAAGTCCGCAATC 540
Db 481 AACCAATTTGTGAGCGCAAAATATACCACTTGGCGCTTACCGGAGAGCAAGTCCGCAATC 540
Oy 541 GTCGCTGAGAGAGCTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 600
Db 541 GTCGCTGAGAGAGCTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 600
Oy 601 GGAAGGCGCTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 660
Db 601 GGAAGGCGCTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 660
Oy 661 GGGAGGGGCTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 720
Db 661 GGGAGGGGCTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 720
Oy 721 GACTGATCCACCACTATGTCCCAAAAAGCCGTGAAGCGGCGCGCTGCT 771
Db 721 GACTGATCCACCACTATGTCCCAAAAAGCCGTGAAGCGGCGCGCTGCT 771

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RESULT 3
US-09-598-982C-8
/ Sequence 8, Application US/09598982C
/ GENERAL INFORMATION:
/ APPLICANT: Niles, Andrew
/ APPLICANT: Maffei, Mark
/ APPLICANT: Haak-Frendach, Mary
/ TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
/ FILE REFERENCE: 34506.104
/ CURRENT APPLICATION NUMBER: US/09/598,982C
/ PRIORITY FILING DATE: 2000-06-21
/ PRIOR APPLICATION NUMBER: 09/079,970
/ NUMBER OF SEQ ID NOS: 52
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 8
/ LENGTH: 771
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ NAME/KEY: CDS
/ LOCATION: (7)..(753)
/ US-09-598-982C-8

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Query Match          99.0%; Score 763; DB 1; Length 771;
Best Local Similarity 99.4%; Pred. No. 0.039;
Matches 766; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

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Oy 1 GGGCCCTCGAAGAAAAGAAATCGTGGGGGTGAGGAGGCCCGGAGGAAAGTGGCCCTGG 60
Db 1 GGGCCCTCGAAGAAAAGAAATCGTGGGGGTGAGGAGGCCCGGAGGAAAGTGGCCCTGG 60
Oy 61 CAGGTGAGGCTGAGAGTCCAGGGCCCAATGAGTGAATGCTTGTGGGGGGCTCCCTCATC 120
Db 61 CAGGTGAGGCTGAGAGTCCAGGGCCCAATGAGTGAATGCTTGTGGGGGGCTCCCTCATC 120
Oy 121 CACCCCACTGAGGAGTCCAGGGCCCAATGAGTGAATGCTTGTGGGGGGCTCCCTCATC 180
Db 121 CACCCCACTGAGGAGTCCAGGGCCCAATGAGTGAATGCTTGTGGGGGGCTCCCTCATC 180
Oy 181 GCGCTCAGGAGTCCAGGGCCCAATGAGTGAATGCTTGTGGGGGGCTCCCTCATC 240
Db 181 GCGCTCAGGAGTCCAGGGCCCAATGAGTGAATGCTTGTGGGGGGCTCCCTCATC 240
Oy 241 AACAGAGATCATGTCGACCCAGGTTCTACCCGCAATGGAGCCGAAATGCGCCCTG 300
Db 241 AACAGAGATCATGTCGACCCAGGTTCTACCCGCAATGGAGCCGAAATGCGCCCTG 300
Oy 301 CTGAGAGCTGAGAGGCGGTTGAAAGTCTTCAAGCCAGTCCAGCGTCCCTGCCCCCT 360
Db 301 CTGAGAGCTGAGAGGCGGTTGAAAGTCTTCAAGCCAGTCCAGCGTCCCTGCCCCCT 360
Oy 361 GCGCTCAGAGAGCTTCCCGGGGAGTCCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 420
Db 361 GCGCTCAGAGAGCTTCCCGGGGAGTCCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 420
Oy 421 AATGATGAGGCGCTCCAGCCGCAATTTCTTGAAGAGAGTGAAGTCCCAATATGAA 480
Db 421 AATGATGAGGCGCTCCAGCCGCAATTTCTTGAAGAGAGTGAAGTCCCAATATGAA 480
Oy 481 AACCAATTTGTGAGCGCAAAATATACCACTTGGCGCTTACCGGAGAGCAAGTCCGCAATC 540
Db 481 AACCAATTTGTGAGCGCAAAATATACCACTTGGCGCTTACCGGAGAGCAAGTCCGCAATC 540
Oy 541 GTCGCTGAGAGAGCTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 600
Db 541 GTCGCTGAGAGAGCTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 600
Oy 601 GGAAGGCGCTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 660
Db 601 GGAAGGCGCTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 660

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Db 601 GGAGGGCCCTGTGTGTGACAGTGAATGACACTGCTGACGGCGGCGTGTCAAGCTGG 660  
 Qy 661 GGCGAGGGCTGTGTGTGACAGTGAATGACACTGCTGACCGCGTGTCAAGCTGG 720  
 Db 661 GGCGAGGGCTGTGTGTGACAGTGAATGACACTGCTGACCGCGTGTCAAGCTGG 720  
 Qy 721 GACTGGATCCACCACCTATGTCTCCCAAAAAGCCGTGAAGCGGCGGCGTGT 771  
 Db 721 GACTGGATCCACCACCTATGTCTCCCAAAAAGCCGTGAAGCGGCGGCGTGT 771

RESULT 4  
 US-09-598-982C-38  
 ; Sequence 38, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Mafflet, Mark  
 ; APPLICANT: Haak-Frendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,  
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; PRIORITY FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 38  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 US-09-598-982C-38

Query Match 98.8%; Score 761.4; DB 1; Length 771;  
 Best Local Similarity 99.2%; Pred. No. 0.039;  
 Matches 765; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 GGGCCCTCGAAGAAATGTCGGGGGTCAAGAGGCCCCCGAGGCAAGTGGCCCTGG 60  
 Db 1 GGGCCCTCGAAGAAATGTCGGGGGTCAAGAGGCCCCCGAGGCAAGTGGCCCTGG 60  
 Qy 61 CAGGTGAGCTGTGAGAGTCCAGCGGCCCATCTGATGACCTTCTGCGGGGCTCCCTC 120  
 Db 61 CAGGTGAGCTGTGAGAGTCCAGCGGCCCATCTGATGACCTTCTGCGGGGCTCCCTC 120  
 Qy 121 CACCCCAAGTGGTGTGACCGCGGCGGCGTGGTGGACCGGACCTCAAGATCTGGCC 180  
 Db 121 CACCCCAAGTGGTGTGACCGCGGCGGCGTGGTGGACCGGACCTCAAGATCTGGCC 180  
 Qy 181 GGCCTCAGGGTGAACCTGGGGGAGACCTCTCACTACCAAGGACCAAGTCTGGCCG 240  
 Db 181 GGCCTCAGGGTGAACCTGGGGGAGACCTCTCACTACCAAGGACCAAGTCTGGCCG 240  
 Qy 241 AGCAGATCATCTGTGACCGACCGATTCTACCGCCCAAGTGGAGGCGAATCGCCCTG 300  
 Db 241 AGCAGATCATCTGTGACCGACCGATTCTACCGCCCAAGTGGAGGCGAATCGCCCTG 300  
 Qy 301 CTGGAGCTGGAGGCGGCTGAACTGTCTCAAGCCACTCAACAGCTGACCTTCCCTC 360  
 Db 301 CTGGAGCTGGAGGCGGCTGAACTGTCTCAAGCCACTCAACAGCTGACCTTCCCTC 360  
 Qy 361 GGCCTCAGAGACTTCCCGGGGGGATGCGGTGGGTCACTGGCTGGGGGAGTGGAGC 420  
 Db 361 GGCCTCAGAGACTTCCCGGGGGGATGCGGTGGGTCACTGGCTGGGGGAGTGGAGC 420  
 Qy 421 AATGATGAGGCGCTCCCAAGCCATTTCTCTGAAAGCAGGTTGAAGTCCCATATGAA 480  
 Db 421 AATGATGAGGCGCTCCCAAGCCATTTCTCTGAAAGCAGGTTGAAGTCCCATATGAA 480  
 Qy 481 AACCACTTTGTGAGCGAAATACCACTTGGCGCTTACAGCGGAGACGACTCCGATC 540

Db 481 AACCACTTTGTGAGCGAAATACCACTTGGCGCTTACAGCGGAGACGACTCCGATC 540  
 Qy 541 GTCCGAGACGATGCTGTGTGACAGTGAATGACACTGCTGACCGCGTGTCAAGCTGG 600  
 Db 541 GTCCGAGACGATGCTGTGTGACAGTGAATGACACTGCTGACCGCGTGTCAAGCTGG 600  
 Qy 601 GGAGGGCCCTGTGTGTGACAGTGAATGACACTGCTGACCGCGTGTCAAGCTGG 660  
 Db 601 GGAGGGCCCTGTGTGTGACAGTGAATGACACTGCTGACCGCGTGTCAAGCTGG 660  
 Qy 661 GGCGAGGGCTGTGTGTGACAGTGAATGACACTGCTGACCGCGTGTCAAGCTGG 720  
 Db 661 GGCGAGGGCTGTGTGTGACAGTGAATGACACTGCTGACCGCGTGTCAAGCTGG 720  
 Qy 721 GACTGGATCCACCACCTATGTCTCCCAAAAAGCCGTGAAGCGGCGGCGTGT 771  
 Db 721 GACTGGATCCACCACCTATGTCTCCCAAAAAGCCGTGAAGCGGCGGCGTGT 771

RESULT 5  
 US-09-598-982C-22  
 ; Sequence 22, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Mafflet, Mark  
 ; APPLICANT: Haak-Frendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,  
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; PRIORITY FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 22  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 US-09-598-982C-22

Query Match 98.5%; Score 759.8; DB 1; Length 771;  
 Best Local Similarity 99.1%; Pred. No. 0.04;  
 Matches 764; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 1 GGGCCCTCGAAGAAATGTCGGGGGTCAAGAGGCCCCCGAGGCAAGTGGCCCTGG 60  
 Db 1 GGGCCCTCGAAGAAATGTCGGGGGTCAAGAGGCCCCCGAGGCAAGTGGCCCTGG 60  
 Qy 61 CAGGTGAGCTGTGAGAGTCCAGCGGCCCATCTGATGACCTTCTGCGGGGCTCCCTC 120  
 Db 61 CAGGTGAGCTGTGAGAGTCCAGCGGCCCATCTGATGACCTTCTGCGGGGCTCCCTC 120  
 Qy 121 CACCCCAAGTGGTGTGACCGCGGCGGCGTGGTGGACCGGACCTCAAGATCTGGCC 180  
 Db 121 CACCCCAAGTGGTGTGACCGCGGCGGCGTGGTGGACCGGACCTCAAGATCTGGCC 180  
 Qy 181 GGCCTCAGGGTGAACCTGGGGGAGACCTCTCACTACCAAGGACCAAGTCTGGCCG 240  
 Db 181 GGCCTCAGGGTGAACCTGGGGGAGACCTCTCACTACCAAGGACCAAGTCTGGCCG 240  
 Qy 241 AGCAGATCATCTGTGACCGACCGATTCTACCGCCCAAGTGGAGGCGAATCGCCCTG 300  
 Db 241 AGCAGATCATCTGTGACCGACCGATTCTACCGCCCAAGTGGAGGCGAATCGCCCTG 300  
 Qy 301 CTGGAGCTGGAGGCGGCTGAACTGTCTCAAGCCACTCAACAGCTGACCTTCCCTC 360  
 Db 301 CTGGAGCTGGAGGCGGCTGAACTGTCTCAAGCCACTCAACAGCTGACCTTCCCTC 360



QY 361 GCCTCAGAGACCTTCCCCCGGGGATGCGCTGGTCACTGGCTGGGGGATGTGGAC 420  
 DB 361 GCCTCAGAGACCTTCCCCCGGGGATGCGCTGGTCACTGGCTGGGGGATGTGGAC 420  
 QY 421 AATGATGAGCGCTCCCAACCGGCATTTCTCTGAAGCAAGTGAAGTCCCATTAATGAAA 480  
 DB 421 AATGATGAGCGCTCCCAACCGGCATTTCTCTGAAGCAAGTGAAGTCCCATTAATGAAA 480  
 QY 481 AACCACTTTTGTGACGGAAAAATACCACTTGGCGCCCTAACAGGGAGACAGTCCGATC 540  
 DB 481 AACCACTTTTGTGACGGAAAAATACCACTTGGCGCCCTAACAGGGAGACAGTCCGATC 540  
 QY 541 GTCCGTACGACATGCTGTGTGCGGGAAACACCGGAGAGACTGATGCGAGGGGCACTCC 600  
 DB 541 GTCCGTACGACATGCTGTGTGCGGGAAACACCGGAGAGACTGATGCGAGGGGCACTCC 600  
 QY 601 GAGAGGGCCCTGGTGTGCAAGGTGAATGGCACTGGCTGACGGCGCGGTGTGAGCTGG 660  
 DB 601 GAGAGGGCCCTGGTGTGCAAGGTGAATGGCACTGGCTGACGGCGCGGTGTGAGCTGG 660  
 QY 661 GCGAGGGGCTGTGCGCCAGCCCAACCGGCTGGCATTTACACCCGTTGACCTACTACTTG 720  
 DB 661 GCGAGGGGCTGTGCGCCAGCCCAACCGGCTGGCATTTACACCCGTTGACCTACTACTTG 720  
 QY 721 GACTGATCCACCACTAATGTTCCCAAAAAAGCCGTGAAGCGGCGCCGCTCGT 771  
 DB 721 GACTGATCCACCACTAATGTTCCCAAAAAAGCCGTGAAGCGGCGCCGCTCGT 771

RESULT 6

US-09-598-982C-40  
 ; Sequence 40, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffett, Mark  
 ; APPLICANT: Haak-Frendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSINS, ACTIVE SITE MUTANTS THEREOF,  
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598, 982C  
 ; PRIOR FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079, 970  
 ; PRIOR FILING DATE: 1998-04-15  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 40  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 US-09-598-982C-40

Query Match 97.9%; Score 755; DB 1; Length 771;  
 Best Local Similarity 98.7%; Pred. No. 0.042;  
 Matches 761; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 1 GGGCCCTTCGAGAAAAGAAATGTCGGGGGTCAAGAGGCCCCCAGAGCAAGTGGCCCTGG 60  
 DB 1 GGGCCCTTCGAGAAAAGAAATGTCGGGGGTCAAGAGGCCCCCAGAGCAAGTGGCCCTGG 60  
 QY 61 CAGGTGAGCTGAGAGTCCACGGCCCATTACTGATGCACTTGTGGGGGGTCCCTCATC 120  
 DB 61 CAGGTGAGCTGAGAGTCCACGGCCCATTACTGATGCACTTGTGGGGGGTCCCTCATC 120  
 QY 121 CACCCCGAGTGGTGTGACCGCGCGCGCGTGGGAGCCGATCAAGAGTCTGGCC 180  
 DB 121 CACCCCGAGTGGTGTGACCGCGCGCGCGTGGGAGCCGATCAAGAGTCTGGCC 180  
 QY 181 GCCCTCAGGGTGTCAACTGCGGAGGACCACTTACTCAAGACAGACTGCTGCGGGTTC 240  
 DB 181 GCCCTCAGGGTGTCAACTGCGGAGGACCACTTACTCAAGACAGACTGCTGCGGGTTC 240

QY 241 AGCAGATCAATCGTGCACCCCAAGTTCTAACCCGCCGAGATGGAGGGGACATGCGCCCTG 300  
 DB 241 AGCAGATCAATCGTGCACCCCAAGTTCTAACCCGCCGAGATGGAGGGGACATGCGCCCTG 300  
 QY 301 CTGAGGTGAGGAGCGCGGTGAACGTCTCCAGCCACGTCCACAGTCACTCCCTG 360  
 DB 301 CTGAGGTGAGGAGCGCGGTGAACGTCTCCAGCCACGTCCACAGTCACTCCCTG 360  
 QY 361 GCCTCAGAGACCTTCCCCCGGGGATGCGCTGGTCACTGGCTGGGGGATGTGGAC 420  
 DB 361 GCCTCAGAGACCTTCCCCCGGGGATGCGCTGGTCACTGGCTGGGGGATGTGGAC 420  
 QY 421 AATGATGAGCGCTCCCAACCGGCATTTCTCTGAAGCAAGTGAAGTCCCATTAATGAAA 480  
 DB 421 AATGATGAGCGCTCCCAACCGGCATTTCTCTGAAGCAAGTGAAGTCCCATTAATGAAA 480  
 QY 481 AACCACTTTTGTGACGGAAAAATACCACTTGGCGCCCTAACAGGGAGACAGTCCGATC 540  
 DB 481 AACCACTTTTGTGACGGAAAAATACCACTTGGCGCCCTAACAGGGAGACAGTCCGATC 540  
 QY 541 GTCCGTACGACATGCTGTGTGCGGGAAACACCGGAGAGACTGATGCGAGGGGCACTCC 600  
 DB 541 GTCCGTACGACATGCTGTGTGCGGGAAACACCGGAGAGACTGATGCGAGGGGCACTCC 600  
 QY 601 GAGAGGGCCCTGGTGTGCAAGGTGAATGGCACTGGCTGACGGCGCGGTGTGAGCTGG 660  
 DB 601 GAGAGGGCCCTGGTGTGCAAGGTGAATGGCACTGGCTGACGGCGCGGTGTGAGCTGG 660  
 QY 661 GCGAGGGGCTGTGCGCCAGCCCAACCGGCTGGCATTTACACCCGTTGACCTACTACTTG 720  
 DB 661 GCGAGGGGCTGTGCGCCAGCCCAACCGGCTGGCATTTACACCCGTTGACCTACTACTTG 720  
 QY 721 GACTGATCCACCACTAATGTTCCCAAAAAAGCCGTGAAGCGGCGCCGCTCGT 771  
 DB 721 GACTGATCCACCACTAATGTTCCCAAAAAAGCCGTGAAGCGGCGCCGCTCGT 771

RESULT 7

US-09-598-982C-42  
 ; Sequence 42, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffett, Mark  
 ; APPLICANT: Haak-Frendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSINS, ACTIVE SITE MUTANTS THEREOF,  
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598, 982C  
 ; PRIOR FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079, 970  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 42  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 US-09-598-982C-42

Query Match 97.9%; Score 755; DB 1; Length 771;  
 Best Local Similarity 98.7%; Pred. No. 0.042;  
 Matches 761; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 1 GGGCCCTTCGAGAAAAGAAATGTCGGGGGTCAAGAGGCCCCCAGAGCAAGTGGCCCTGG 60  
 DB 1 GGGCCCTTCGAGAAAAGAAATGTCGGGGGTCAAGAGGCCCCCAGAGCAAGTGGCCCTGG 60  
 QY 61 CAGGTGAGCTGAGAGTCCACGGCCCATTACTGATGCACTTGTGGGGGGTCCCTCATC 120  
 DB 61 CAGGTGAGCTGAGAGTCCACGGCCCATTACTGATGCACTTGTGGGGGGTCCCTCATC 120

Db 61 CAGGTGAGGCTGAGAGTCCACGCGCCCAATACAGTGAATGCACTTCTGCGGGGGCTCCCTCAATC 120  
 Qy 121 CACCCCAAGTGGGTCTGACCCGCGGGGCTGTGGGACCGGACGTCGAAGGATCTGGCC 180  
 Db 121 CACCCCAAGTGGGTCTGACCCGCGGGGCTGTGGGACCGGACGTCGAAGGATCTGGCC 180  
 Qy 181 GCCCTCAGGGGTGCAATCTGGGGGAGAGCACTCTTACAGAGCAAGCTGTGCGCGTTC 240  
 Db 181 GCCCTCAGGGGTGCAATCTGGGGGAGAGCACTCTTACAGAGCAAGCTGTGCGCGTTC 240  
 Qy 241 AGCAGGATCATCTGATCCACCCCAAGTTCATACAGCCGCGAGTGGAGCGGACATCTGGCC 300  
 Db 241 AGCAGGATCATCTGATCCACCCCAAGTTCATACAGCCGCGAGTGGAGCGGACATCTGGCC 300  
 Qy 301 CTGAGCTGAGAGGACCGGTGAAAGTCTTCAGCCACGTCACACCGGTCACCTTGGCCCT 360  
 Db 301 CTGAGCTGAGAGGACCGGTGAAAGTCTTCAGCCACGTCACACCGGTCACCTTGGCCCT 360  
 Qy 361 GCCTCAGAGACTTCCCGCGGGAGTGCCTGTGCTGGGTCACTGGCTGGGGCGATGTGGAC 420  
 Db 361 GCCTCAGAGACTTCCCGCGGGAGTGCCTGTGCTGGGTCACTGGCTGGGGCGATGTGGAC 420  
 Qy 421 AATGATGAGCGCTCCACCGGCAATTTCTCTGAAAGCAGGTGAAGTCCCAATATGGAA 480  
 Db 421 AATGATGAGCGCTCCACCGGCAATTTCTCTGAAAGCAGGTGAAGTCCCAATATGGAA 480  
 Qy 481 AACCAATTTGTGAGCGCAAAATATACACTTGGCGGCTTACACCGGAGACGACGTCGCAATC 540  
 Db 481 AACCAATTTGTGAGCGCAAAATATACACTTGGCGGCTTACACCGGAGACGACGTCGCAATC 540  
 Qy 541 GTCCGTGACGACATCTGTGTGTGCGGGAAACACCCGGAGGAACTCATGCCAGGGCGACTCC 600  
 Db 541 GTCCGTGACGACATCTGTGTGTGCGGGAAACACCCGGAGGAACTCATGCCAGGGCGACTCC 600  
 Qy 601 GGAAGGGCCCTGTGTGTGCAAGGTGAATGGCACCTGGCTTCAAGGGGGGGTGGTCAAGCTGG 660  
 Db 601 GGAAGGGCCCTGTGTGTGCAAGGTGAATGGCACCTGGCTTCAAGGGGGGGTGGTCAAGCTGG 660  
 Qy 661 GGCGAGGGCTGTGTGCGCCAGCCCAACCGGCTGTGCATCTACACCGGTCTCACTTACTTGG 720  
 Db 661 GGCGAGGGCTGTGTGCGCCAGCCCAACCGGCTGTGCATCTACACCGGTCTCACTTACTTGG 720  
 Qy 721 GACTGATTCACCACTATGTCCCAAAAAAGCCGTGAAGCGGCGCGCTGCT 771  
 Db 721 GACTGATTCACCACTATGTCCCAAAAAAGCCGTGAAGCGGCGCGCTGCT 771

RESULT 8  
 US-09-598-982C-24  
 ; Sequence 24, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffitt, Mark  
 ; APPLICANT: Haak-Frendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSINS, ACTIVE SITE MUTANTS THEREOF,  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; PRIORITY FILING DATE: 2000-06-21  
 ; PRIORITY FILING DATE: 1998-04-15  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 24  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 ; US-09-598-982C-24

Query Match 97.7%; Score 753.4; DB 1; Length 771;

Db 61 CAGGTGAGGCTGAGAGTCCACGCGCCCAATACAGTGAATGCACTTCTGCGGGGGCTCCCTCAATC 120  
 Qy 121 CACCCCAAGTGGGTCTGACCCGCGGGGCTGTGGGACCGGACGTCGAAGGATCTGGCC 180  
 Db 121 CACCCCAAGTGGGTCTGACCCGCGGGGCTGTGGGACCGGACGTCGAAGGATCTGGCC 180  
 Qy 181 GCCCTCAGGGGTGCAATCTGGGGGAGAGCACTCTTACAGAGCAAGCTGTGCGCGTTC 240  
 Db 181 GCCCTCAGGGGTGCAATCTGGGGGAGAGCACTCTTACAGAGCAAGCTGTGCGCGTTC 240  
 Qy 241 AGCAGGATCATCTGATCCACCCCAAGTTCATACAGCCGCGAGTGGAGCGGACATCTGGCC 300  
 Db 241 AGCAGGATCATCTGATCCACCCCAAGTTCATACAGCCGCGAGTGGAGCGGACATCTGGCC 300  
 Qy 301 CTGAGCTGAGAGGACCGGTGAAAGTCTTCAGCCACGTCACACCGGTCACCTTGGCCCT 360  
 Db 301 CTGAGCTGAGAGGACCGGTGAAAGTCTTCAGCCACGTCACACCGGTCACCTTGGCCCT 360  
 Qy 361 GCCTCAGAGACTTCCCGCGGGAGTGCCTGTGCTGGGTCACTGGCTGGGGCGATGTGGAC 420  
 Db 361 GCCTCAGAGACTTCCCGCGGGAGTGCCTGTGCTGGGTCACTGGCTGGGGCGATGTGGAC 420  
 Qy 421 AATGATGAGCGCTCCACCGGCAATTTCTCTGAAAGCAGGTGAAGTCCCAATATGGAA 480  
 Db 421 AATGATGAGCGCTCCACCGGCAATTTCTCTGAAAGCAGGTGAAGTCCCAATATGGAA 480  
 Qy 481 AACCAATTTGTGAGCGCAAAATATACACTTGGCGGCTTACACCGGAGACGACGTCGCAATC 540  
 Db 481 AACCAATTTGTGAGCGCAAAATATACACTTGGCGGCTTACACCGGAGACGACGTCGCAATC 540  
 Qy 541 GTCCGTGACGACATCTGTGTGTGCGGGAAACACCCGGAGGAACTCATGCCAGGGCGACTCC 600  
 Db 541 GTCCGTGACGACATCTGTGTGTGCGGGAAACACCCGGAGGAACTCATGCCAGGGCGACTCC 600  
 Qy 601 GGAAGGGCCCTGTGTGTGCAAGGTGAATGGCACCTGGCTTCAAGGGGGGGTGGTCAAGCTGG 660  
 Db 601 GGAAGGGCCCTGTGTGTGCAAGGTGAATGGCACCTGGCTTCAAGGGGGGGTGGTCAAGCTGG 660  
 Qy 661 GGCGAGGGCTGTGTGCGCCAGCCCAACCGGCTGTGCATCTACACCGGTCTCACTTACTTGG 720  
 Db 661 GGCGAGGGCTGTGTGCGCCAGCCCAACCGGCTGTGCATCTACACCGGTCTCACTTACTTGG 720  
 Qy 721 GACTGATTCACCACTATGTCCCAAAAAAGCCGTGAAGCGGCGCGCTGCT 771  
 Db 721 GACTGATTCACCACTATGTCCCAAAAAAGCCGTGAAGCGGCGCGCTGCT 771

RESULT 9  
 US-09-598-982C-26  
 ; Sequence 26, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffitt, Mark  
 ; APPLICANT: Haak-Frendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSINS, ACTIVE SITE MUTANTS THEREOF,  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; PRIORITY FILING DATE: 2000-06-21  
 ; PRIORITY FILING DATE: 1998-04-15  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 26

Best Local Similarity 98.6%; Pred. No. 0.042;  
 Matches 760; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 ; US-09-598-982C-26

Query Match 97.7%; Score 753 4; DB 1; Length 771;  
 Best Local Similarity 96.6%; Pred. No. 0.042; Mismatches 11; Indels 0; Gaps 0;  
 Matches 760; Conservative 0;

QY	1	GGGCCCCCTCGAGAAAAGAAATGCTGCGGGGGTCAAGAGGCCCCCAGAGCAAGTGGCCCTCG	60
DB	1	GGGCCCCCTCGAGAAAAGAAATGCTGCGGGGGTCAAGAGGCCCCCAGAGCAAGTGGCCCTCG	60
QY	61	CAGGTGAGCTTGAAGATCGACGCGCCATATCTGATGCACTTTCTGCGGGGGTCCCTCATC	120
DB	61	CAGGTGAGCTTGAAGATCGACGCGCCATATCTGATGCACTTTCTGCGGGGGTCCCTCATC	120
QY	121	CACCCCAAGTGGGCTGACGCGCCGCGCGGTGGGACCGGACGTCAAAGATCTGGCC	180
DB	121	CACCCCAAGTGGGCTGACGCGCCGCGCGGTGGGACCGGACGTCAAAGATCTGGCC	180
QY	181	GCCCTCAGGGTGAATCTGCGGGAGAGCACTCTACTACAGAGCACAGCTGCTGCGCGGTC	240
DB	181	GCCCTCAGGGTGAATCTGCGGGAGAGCACTCTACTACAGAGCACAGCTGCTGCGCGGTC	240
QY	241	AGCAGATCATCTGTCACCCACAGTTCTACACGCGCCAGATCGAGCGGACATCGCCCTG	300
DB	241	AGCAGATCATCTGTCACCCACAGTTCTACACGCGCCAGATCGAGCGGACATCGCCCTG	300
QY	301	CTGAGAGTGAAGAGAGCGGGTGAAGTCTCTCCAGCCACGTCACAGGTCACCTCTGCTC	360
DB	301	CTGAGAGTGAAGAGAGCGGGTGAAGTCTCTCCAGCCACGTCACAGGTCACCTCTGCTC	360
QY	361	GCCCTCAGAGACTTCCCCCGGGAGTCCGCTGCTGGGTCACTGGCTGGGGGATGTTGAC	420
DB	361	GCCCTCAGAGACTTCCCCCGGGAGTCCGCTGCTGGGTCACTGGCTGGGGGATGTTGAC	420
QY	421	AATGATGAGCGCTCCCAACCGCAATTTCTCTGAAGCAAGTGAAGTCCCATTAATGAA	480
DB	421	AATGATGAGCGCTCCCAACCGCAATTTCTCTGAAGCAAGTGAAGTCCCATTAATGAA	480
QY	481	AACCAATTGATGAGCAAAATACCACTTTGGCGCTTACAGGGAGACAGATCCGATC	540
DB	481	AACCAATTGATGAGCAAAATACCACTTTGGCGCTTACAGGGAGACAGATCCGATC	540
QY	541	GTCGATGACATGCTGTGTGCGGGAAACCCCGAAGGGACTCATGCGAGGGCACTCC	600
DB	541	GTCGATGACATGCTGTGTGCGGGAAACCCCGAAGGGACTCATGCGAGGGCACTCC	600
QY	601	GGAGGGCCCTGTGTGTGCAAGGTGATGGCACTGCTGCAAGCGCGGCTGCTGAGCTGG	660
DB	601	GGAGGGCCCTGTGTGTGCAAGGTGATGGCACTGCTGCAAGCGCGGCTGCTGAGCTGG	660
QY	661	GGCGAGGGCTGTGCCAGCCCAACCGGCTGAGCATCTACACCCTGTGACTACTACTGG	720
DB	661	GGCGAGGGCTGTGCCAGCCCAACCGGCTGAGCATCTACACCCTGTGACTACTACTGG	720
QY	721	GACTGAGTCCACACTATGATCCCAAAAAGCGGTGAAGCGGCGCGCTGCT	771
DB	721	GACTGAGTCCACACTATGATCCCAAAAAGCGGTGAAGCGGCGCGCTGCT	771

RESULT 10  
 US-09-598-982C-10  
 ; Sequence 10, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffitt, Mark  
 ; APPLICANT: Haak-Frendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSINS, ACTIVE SITE MUTANTS THEREOF,

; TITLE OF INVENTION: AND METHODS OF MAKING SAME  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598, 982C  
 ; CURRENT FILING DATE: 2000-06-21  
 ; PRIORITY APPLICATION NUMBER: 09/079, 970  
 ; PRIORITY FILING DATE: 1998-04-15  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 10  
 ; LENGTH: 735  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (1)..(735)  
 ; US-09-598-982C-10

Query Match 94.3%; Score 727; DB 1; Length 735;  
 Best Local Similarity 99.3%; Pred. No. 0.057; Mismatches 5; Indels 0; Gaps 0;  
 Matches 730; Conservative 0;

QY	19	ATGCTGGGGGTCAAGAGGCCCCCAGAGCAAGTGGCCCTGAGGAGTGGAGGCTGAGATC	78
DB	1	ATGCTGGGGGTCAAGAGGCCCCCAGAGCAAGTGGCCCTGAGGAGTGGAGGCTGAGATC	60
QY	79	CAGGGCCATPCTGGAATGCACTTCTGCGGGGGCTCCCTCATCCACCCCAAGTGGGCTG	138
DB	61	CAGGGCCATPCTGGAATGCACTTCTGCGGGGGCTCCCTCATCCACCCCAAGTGGGCTG	120
QY	139	ACCGCCCGCGGTGCTGAGGACCGGACGTCAGAGATCTGCGCCCTCAGGGTCAACTG	198
DB	121	ACCGCCCGCGGTGCTGAGGACCGGACGTCAGAGATCTGCGCCCTCAGGGTCAACTG	180
QY	199	CGGAGAGCACTCTACTACAGAGCAAGTCTGCGCGGTCAAGGATCTGCGCCCTCAGGGTCAACTG	258
DB	181	CGGAGAGCACTCTACTACAGAGCAAGTCTGCGCGGTCAAGGATCTGCGCGGTCAAGGATCTGCGCGGTCAACTG	240
QY	259	CCAAGTCTACACCGCCAGATCGGAGCGGACATGCGCCCTGCTGAGGAGTGGAGGCGG	318
DB	241	CCAAGTCTACACCGCCAGATCGGAGCGGACATGCGCCCTGCTGAGGAGTGGAGGAGGCGG	300
QY	319	GTAAGCTCTCAAGCACTTCAACAGGTCACCTGCGCCCTCAGAGACTTCTCCG	378
DB	301	GTAAGCTCTCAAGCACTTCAACAGGTCACCTGCGCCCTCAGAGACTTCTCCG	360
QY	379	CCGGGATGCGCTGCTGAGTCACTGCTGGGGGATGTCAGATGATGAGCGCTCCCA	438
DB	361	CCGGGATGCGCTGCTGAGTCACTGCTGGGGGATGTCAGATGATGAGCGCGCTCCCA	420
QY	439	CCGCAATTTCTCTGAAAGCAAGTGAAGTCCCAATAATGAAACCAATTTGAGAGCA	498
DB	421	CCGCAATTTCTCTGAAAGCAAGTGAAGTCCCAATAATGAAACCAATTTGAGAGCA	480
QY	499	AAATACCACTTGGCGCTTCAACCGGAGACAGACTCCGATCTCCGTCAGAGACTGCTG	558
DB	481	AAATACCACTTGGCGCTTCAACCGGAGACAGACTCCGATCTCCGTCAGAGACTGCTG	540
QY	559	TGTCCCGGAAACACCCGAGGAGCTCATGCCAGGCGACTTCCGAGGCGCCCTGAGTGG	618
DB	541	TGTCCCGGAAACACCCGAGGAGCTCATGCCAGGCGACTTCCGAGGCGCCCTGAGTGG	600
QY	619	AAAGTGAATGACACTGTCGACGCGGGGCTGAGTCAAGTGGGGGCGAGGGGCTGAGCCAG	678
DB	601	AAAGTGAATGACACTGTCGACGCGGGGCTGAGTCAAGTGGGGGCGAGGGGCTGAGCCAG	660
QY	679	CCCAACCGGCTGAGTCTACACCCTGTGCACTACTACTGAGCTGAGATCCACCATAT	738
DB	661	CCCAACCGGCTGAGTCTACACCCTGTGCACTACTACTGAGCTGAGATCCACCATAT	720
QY	739	GTCCCAAAAAGCCG 753	
DB	721	GTCCCAAAAAGCCG 735	

RESULT 11  
 US-09-598-982C-20/c  
 ; Sequence 20, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffitt, Mark  
 ; APPLICANT: Haak-Frendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSASES, ACTIVE SITE MUTANTS THEREOF,  
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; CURRENT FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; PRIOR FILING DATE: 1998-04-15  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO: 20  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 US-09-598-982C-20

Query Match 4.2%; Score 32.4; DB 1; Length 771;  
 Best Local Similarity 46.8%; Pred. No. 17;  
 Matches 102; Conservative 0; Mismatches 116; Indels 0; Gaps 0;

QY 49 AAGTGGCCCTGGCAGAGTGAAGCTTGCAGCGGCCCACTTGTGATGATCTTTCGGGG 108  
 DB 266 AACTGTGGGTGACAGATATCTTGTGACCGGCAAGCTGTGCTGTGAGTAGAGGTC 207  
 QY 109 GGCTCCCTCATCCACCCCAAGTGGTGTGACCGCGCGGTGGGACCGGACGTC 168  
 DB 206 TGCTCCCGAGTGTGACCTCTGAGGGGGCCGACATCTTACCTCCGGTCCACGACGCC 147  
 QY 169 AAGGATCTGGCCCGCTCAGGGGTGCAACTGCGGAGACACACTTACTACGAGGACG 228  
 DB 146 GCGGGGTGACGACCCACCTGAGGGGTGAGTGAAGGAGCCCGCAGAAATGATCCAGTAT 87  
 QY 229 CTGCTGCCGCTCAGCAGGATCATCTTGCACCCACAGTT 266  
 DB 86 GGGCCGTGAGACTCTCAGGCTCACTGCCAGGGCCACTT 49

RESULT 12  
 US-09-598-982C-36/c  
 ; Sequence 36, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffitt, Mark  
 ; APPLICANT: Haak-Frendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSASES, ACTIVE SITE MUTANTS THEREOF,  
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; CURRENT FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; PRIOR FILING DATE: 1998-04-15  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO: 36  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 US-09-598-982C-36  
 Query Match 4.2%; Score 32.4; DB 1; Length 771;

Best Local Similarity 46.8%; Pred. No. 17;  
 Matches 102; Conservative 0; Mismatches 116; Indels 0; Gaps 0;

QY 49 AAGTGGCCCTGGCAGAGTGAAGCTTGCAGCGGCCCACTTGTGATGATCTTTCGGGG 108  
 DB 266 AACTGTGGGTGACAGATATCTTGTGACCGGCAAGCTGTGCTGTGAGTAGAGGTC 207  
 QY 109 GGCTCCCTCATCCACCCCAAGTGGTGTGACCGCGCGGTGGGACCGGACGTC 168  
 DB 206 TGCTCCCGAGTGTGACCTCTGAGGGGGCCGACATCTTACCTCCGGTCCACGACGCC 147  
 QY 169 AAGGATCTGGCCCGCTCAGGGGTGCAACTGCGGAGACACACTTACTACGAGGACG 228  
 DB 146 GCGGGGTGACGACCCACCTGAGGGGTGAGTGAAGGAGCCCGCAGAAATGATCCAGTAT 87  
 QY 229 CTGCTGCCGCTCAGCAGGATCATCTTGCACCCACAGTT 266  
 DB 86 GGGCCGTGAGACTCTCAGGCTCACTGCCAGGGCCACTT 49

RESULT 13  
 US-09-598-982C-8/c  
 ; Sequence 8, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffitt, Mark  
 ; APPLICANT: Haak-Frendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSASES, ACTIVE SITE MUTANTS THEREOF,  
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; CURRENT FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; PRIOR FILING DATE: 1998-04-15  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO: 8  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 US-09-598-982C-8

Query Match 3.7%; Score 28.2; DB 1; Length 771;  
 Best Local Similarity 53.1%; Pred. No. 17;  
 Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

QY 1 GGGCCCTCGAAGAAAGATGTGGGGGTGACGAGGCCCCCAGAGCAAGTGGCCCTGG 60  
 DB 113 GAGCCCCCGCAGAAAGTGCATGATGAGGCGCTGAGACTCTCAGGCTCAGCCAGGGC 54  
 QY 61 CAGGTGAGCCTGAGAGTGCACGCGCCCATATCTGATGATGATCTTGGCGGGGCTC 113  
 DB 53 CACTTGTCTCTGGGGGCTCTGACCCCGCAGAGATCTTTTCTCGAGGGGGCC 1

RESULT 14  
 US-09-598-982C-22/c  
 ; Sequence 22, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffitt, Mark  
 ; APPLICANT: Haak-Frendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSASES, ACTIVE SITE MUTANTS THEREOF,  
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; CURRENT FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; PRIOR FILING DATE: 1998-04-15  
 ; NUMBER OF SEQ ID NOS: 52

```

; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 22
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURES:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
US-09-598-982C-22

```

```

Query Match          3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

```

```

Oy 1 GGGCCCTCGAAGAAAGATGTCGGGGGTTCAGAGAGGCCCCCAAGAGCAAGTGGCCCTGG 60
    |||||
Db 113 GAGCCCCCGGAGAGTGCATCCAGTATGGGGCGTGGACTCTCAAGCTCACCCTGGCCAGGGC 54
    |||||
Oy 61 CAGGTGAGCCTGAGAGTCCACGGCCCAATATCTGATGCACTTCTGGGGGGGCTC 113
    |||||
Db 53 CACTTGTCTCTGGGGGGCTCCTCTGACCCCGGACAGATTTCTTTCTCGAGGGGGCC 1
    |||||

```

```

RESULT 15
US-09-598-982C-24/c
; Sequence 24, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPPASERS, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 24
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURES:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
US-09-598-982C-24

```

```

Query Match          3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

```

```

Oy 1 GGGCCCTCGAAGAAAGATGTCGGGGGTTCAGAGAGGCCCCCAAGAGCAAGTGGCCCTGG 60
    |||||
Db 113 GAGCCCCCGGAGAGTGCATCCAGTATGGGGCGTGGACTCTCAAGCTCACCCTGGCCAGGGC 54
    |||||
Oy 61 CAGGTGAGCCTGAGAGTCCACGGCCCAATATCTGATGCACTTCTGGGGGGGCTC 113
    |||||
Db 53 CACTTGTCTCTGGGGGGCTCCTCTGACCCCGGACAGATTTCTTTCTCGAGGGGGCC 1
    |||||

```

```

RESULT 16
US-09-598-982C-26/c
; Sequence 26, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPPASERS, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21

```

```

; PRIOR APPLICATION NUMBER: 09/079,970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 26
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURES:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
US-09-598-982C-26

```

```

; PRIOR APPLICATION NUMBER: 09/079,970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 26
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURES:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
US-09-598-982C-26

```

```

Query Match          3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

```

```

Oy 1 GGGCCCTCGAAGAAAGATGTCGGGGGTTCAGAGAGGCCCCCAAGAGCAAGTGGCCCTGG 60
    |||||
Db 113 GAGCCCCCGGAGAGTGCATCCAGTATGGGGCGTGGACTCTCAAGCTCACCCTGGCCAGGGC 54
    |||||
Oy 61 CAGGTGAGCCTGAGAGTCCACGGCCCAATATCTGATGCACTTCTGGGGGGGCTC 113
    |||||
Db 53 CACTTGTCTCTGGGGGGCTCCTCTGACCCCGGACAGATTTCTTTCTCGAGGGGGCC 1
    |||||

```

```

RESULT 17
US-09-598-982C-38/c
; Sequence 38, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPPASERS, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 38
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURES:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
US-09-598-982C-38

```

```

Query Match          3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

```

```

Oy 1 GGGCCCTCGAAGAAAGATGTCGGGGGTTCAGAGAGGCCCCCAAGAGCAAGTGGCCCTGG 60
    |||||
Db 113 GAGCCCCCGGAGAGTGCATCCAGTATGGGGCGTGGACTCTCAAGCTCACCCTGGCCAGGGC 54
    |||||
Oy 61 CAGGTGAGCCTGAGAGTCCACGGCCCAATATCTGATGCACTTCTGGGGGGGCTC 113
    |||||
Db 53 CACTTGTCTCTGGGGGGCTCCTCTGACCCCGGACAGATTTCTTTCTCGAGGGGGCC 1
    |||||

```

```

RESULT 18
US-09-598-982C-40/c
; Sequence 40, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPPASERS, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME

```

```

; PRIOR APPLICATION NUMBER: 09/079,970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 40
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURES:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
US-09-598-982C-40

```

```

; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598.982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY APPLICATION NUMBER: 09/079.970
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 40
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-40

```

```

Query Match      3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

```

```

Qy 1 GGGCCCTCGAGAAAAGAAATCGTGGGGGTGAGAGGCCCCGAGGAGCAAGTGGCCCTGG 60
Db 113 GAGCCCCCGCAGAAAGTGCATCCAGTATGGGCGGTGAGCTCAGGCTCACTGCCAGGGC 54
Qy 61 CAGGTGAGCCCTGAGAGTCCAGCCCACTGATGCACTTCTGGGGGGCTC 113
Db 53 CACTTGCCTCTGGGGGCTCTCCAGCCCGCAGCAATTTCTTCTCGAGGGGGCC 1

```

RESULT 19

```

US-09-598-982C-42/c
; Sequence 42, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPPASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598.982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY APPLICATION NUMBER: 09/079.970
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 42
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-42

```

```

Query Match      3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

```

```

Qy 1 GGGCCCTCGAGAAAAGAAATCGTGGGGGTGAGAGGCCCCGAGGAGCAAGTGGCCCTGG 60
Db 113 GAGCCCCCGCAGAAAGTGCATCCAGTATGGGCGGTGAGCTCAGGCTCACTGCCAGGGC 54
Qy 61 CAGGTGAGCCCTGAGAGTCCAGCCCACTGATGCACTTCTGGGGGGCTC 113
Db 53 CACTTGCCTCTGGGGGCTCTCCAGCCCGCAGCAATTTCTTCTCGAGGGGGCC 1

```

```

RESULT 20
US-09-598-982C-10/c
; Sequence 10, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark

```

```

; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPPASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598.982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY APPLICATION NUMBER: 09/079.970
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 10
; LENGTH: 735
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(735)
; US-09-598-982C-10

```

```

Query Match      3.6%; Score 27.6; DB 1; Length 735;
Best Local Similarity 45.4%; Pred. No. 18;
Matches 99; Conservative 0; Mismatches 119; Indels 0; Gaps 0;

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Qy 49 AAGTGGCCCTGAGAGTCCAGCCCACTGATGCACTTCTGGGGGG 108
Db 248 AACTGTGGGTGAGAGTATCTGTGACCCGCGCAGACAGTCTCTGTATAGAGCTGC 189
Qy 109 GAGTCCCTCATCCACCCCACTGGGTGACCCGCGCGGTGAGAGTCCGAGAGCTC 168
Db 188 TGCTCCCGCAGATGAGACCTGAGGGGGCGCAGATCCTTGAAGTCCCGTCCAGGAGTGC 129
Qy 169 AAGGATCTGGCCCGCTCAGAGGTGCACTGCGGAGCAGCACTTACTACAGAGCCAG 228
Db 128 GCTGGGTGAGCAGCCCACTGGGGGTGAGTGGAGGAGCCCGCAGAAAGTGCATCCAGTAT 69
Qy 229 CTGCTGCCGCTCAGGAGATCATGTCAGCCACAGATT 266
Db 68 GGGCCGTGAGCTCTGAGGCTCACTGCGCAGGGCCACTT 31

```

```

Search completed: August 26, 2005, 12:32:33
Job time : 3.81314 secs

```

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

```

Run on: August 26, 2005, 12:31:55 ; Search time 2.81314 Seconds
          (without alignments)
          4.206 Million cell updates/sec

```

```

Title: US-09-598-982C-38
Perfect score: 771
Sequence: 1 gggccctcgagaaaagaat.....cftgagagggcgccctgcgt 771

```

```

Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 0.5

```

```

Searched: 10 seqs, 7674 residues
Total number of hits satisfying chosen parameters: 20

```

```

Minimum DB seq length: 0
Maximum DB seq length: inf

```

```

Post-processing: Minimum Match 0%
                  Maximum Match 100%
                  Listing first 200 summaries

```

```

Database : US09598982C_rev.seq.*

```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Table with columns: Result No., Score, Query Match Length, DB ID, Description. Contains sequence alignment data for various database entries.

ALIGNMENTS

RESULT 1
US-09-598-982C-38
Sequence 38, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffett, Mark
TITLE OF INVENTION: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSINS, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506.104
CURRENT APPLICATION NUMBER: US/09/598, 982C
PRIOR FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079,970
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 38
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (7)..(753)
US-09-598-982C-38
Query Match 100.0%; Score 771; DB 1; Length 771;
Best Local Similarity 100.0%; Pred. No. 0.037;
Matches 771; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Query Match 99.8%; Score 769.4; DB 1; Length 771;
Best Local Similarity 99.9%; Pred. No. 0.037;
Matches 770; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Db 121 CACCCCAAGTGGTGTGACCGGACCCCACTGCTGGGAAACCGGACGTCAAGATCTGGCC 180
Qy 181 GCGCTGAGGGGAGCACTGGGGAGAGACACTCTACTACGAGCAAGCAAGTCTGGCCGCTC 240
Db 181 GCGCTGAGGGGAGCACTGGGGAGAGACACTCTACTACGAGCAAGCAAGTCTGGCCGCTC 240
Qy 241 AGCAGATCACTGTCACCCCAAGTTCTACACCCCGCAGATCGGAGGGGAGCCCTG 300
Db 241 AGCAGATCACTGTCACCCCAAGTTCTACACCCCGCAGATCGGAGGGGAGCCCTG 300
Qy 301 CTGAGAGTGGAGAGCCGGTGAACGTCTCCAGCCAGTCCACAGTCCACCTCCCTC 360
Db 301 CTGAGAGTGGAGAGCCGGTGAACGTCTCCAGCCAGTCCACAGTCCACCTCCCTC 360
Qy 361 GCGTCAAGAGACTTCCCGGGGATGCGTGGGATGCTGGCTGGGGGAGATGGGAC 420
Db 361 GCGTCAAGAGACTTCCCGGGGATGCGTGGGATGCTGGCTGGGGGAGATGGGAC 420
Qy 421 AATGATGAGCGCTCCCAACCGCATTTCTCTGAAAGAGTGAAGTCCCAATATGGA 480
Db 421 AATGATGAGCGCTCCCAACCGCATTTCTCTGAAAGAGTGAAGTCCCAATATGGA 480
Qy 481 AACCAATTTGTGACGGAAATACCACTTGGCCCTACACGGGAGACAGTCCGCAATC 540
Db 481 AACCAATTTGTGACGGAAATACCACTTGGCCCTACACGGGAGACAGTCCGCAATC 540
Qy 541 GTCCGTGACCAAGTCTGTGCGGGGAAACACCGGGAGGATGATGCGGGGAGATCC 600
Db 541 GTCCGTGACCAAGTCTGTGCGGGGAAACACCGGGAGGATGATGCGGGGAGATCC 600
Qy 601 GGAGGGCCCTGCTGTGCAAGTGAATGGCACTGTGCTGACGAGCGGGGCTGAGCTGG 660
Db 601 GGAGGGCCCTGCTGTGCTGTGCAAGTGAATGGCACTGTGCTGACGAGCGGGGCTGAGCTGG 660
Qy 661 GGCGAGGGCTGTGCGCCAGCCCAACCGGCTGGGACATCAACCGGCTGACCTACTTGG 720
Db 661 GGCGAGGGCTGTGCGCCAGCCCAACCGGCTGGGACATCAACCGGCTGACCTACTTGG 720
Qy 721 GACTGATCCACCACTATGTCCTCCAAAAGCCGTAAGGCGGCGCCCTGCTG 771
Db 721 GACTGATCCACCACTATGTCCTCCAAAAGCCGTAAGGCGGCGCCCTGCTG 771

RESULT 2
US-09-598-982C-22
Sequence 22, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffett, Mark
TITLE OF INVENTION: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSINS, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506.104
CURRENT APPLICATION NUMBER: US/09/598, 982C
PRIOR FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079,970
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 22
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (7)..(753)
US-09-598-982C-22
Query Match 99.8%; Score 769.4; DB 1; Length 771;
Best Local Similarity 99.9%; Pred. No. 0.037;
Matches 770; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Db 1 GGGCCCCCTCGAAGAAAAGATCGTGGGGGTCAAGAGGCCCCCAAGAGCAAGTGGCCCTGG
QY 61 CAGGTGAGCCTGAGAGATCCACCGCCCAATGATGATGCACTTGTGGGGGGCTCCCTCATC
Db 61 CAGGTGAGCCTGAGAGATCCACCGCCCAATGATGATGCACTTGTGGGGGGCTCCCTCATC
QY 121 CAGCCCCAGTGGGTGTGACCGGACGGGCACTGGCGTGGGACCGGAGTCAAGATCTGGCC
Db 121 CAGCCCCAGTGGGTGTGACCGGACGGGCACTGGCGTGGGACCGGAGTCAAGATCTGGCC
QY 181 GCGCTCAGGGTCAACTGGGGGAGGAGCACTTCTAACAAGACAGGCTGTGGCCGGTTC
Db 181 GCGCTCAGGGTCAACTGGGGGAGGAGCACTTCTAACAAGACAGGCTGTGGCCGGTTC
QY 241 AGCAGGATCATGTCGACCCCAAGTTCATACACCGCCCAAGTGGAGCGGCAATCCCGCTT
Db 241 AGCAGGATCATGTCGACCCCAAGTTCATACACCGCCCAAGTGGAGCGGCAATCCCGCTT
QY 301 CTGAGCTGAGAGAGCCGGTAAAGTCTTCACGCCACATGTCACAGGATCACTTGGCCCTT
Db 301 CTGAGCTGAGAGAGCCGGTAAAGTCTTCACGCCACATGTCACAGGATCACTTGGCCCTT
QY 361 GCGTGAAGAGACCTTCCCGGGGAGTCCGTCGAGGTCAGTGGGTCAGTGGGGGGAGTGGAC
Db 361 GCGTGAAGAGACCTTCCCGGGGAGTCCGTCGAGGTCAGTGGGTCAGTGGGGGGAGTGGAC
QY 421 AATGATGAGCGCCTCCACCGCCATTTCTCTGAAAGCAAGTGAAGTCCCAATATGAA
Db 421 AATGATGAGCGCCTCCACCGCCATTTCTCTGAAAGCAAGTGAAGTCCCAATATGAA
QY 481 AACCACATTTGTGAGCGCAAAATACCACTTGGCGCTTACACGGGAGACGACGTCCGCAATC
Db 481 AACCACATTTGTGAGCGCAAAATACCACTTGGCGCTTACACGGGAGACGACGTCCGCAATC
QY 541 GTCCGTGACGACATGCTGTGTGTCGGGAAACACCGGAGGAACTACATGCGGCGCACTCC
Db 541 GTCCGTGACGACATGCTGTGTGTCGGGAAACACCGGAGGAACTACATGCGGCGCACTCC
QY 601 GGAGGGCCCCCTGTGTGTGCAAGGTGATGGCACTGGCTGCAAGCGGGCGTGTCACTGG
Db 601 GGAGGGCCCCCTGTGTGTGCAAGGTGATGGCACTGGCTGCAAGCGGGCGTGTCACTGG
QY 661 GCGGAGGGCTGTGTGCCAGCCCAACCGGCTGTGATCTTCAACCGTGTCACTTACTTGG
Db 661 GCGGAGGGCTGTGTGCCAGCCCAACCGGCTGTGATCTTCAACCGTGTCACTTACTTGG
QY 721 GACTGATCCACCACTATGTCCCAAAAAGCGGTGAAGCGCGCCGCTGCT 771
Db 721 GACTGATCCACCACTATGTCCCAAAAAGCGGTGAAGCGCGCCGCTGCT 771

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```

; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-8
Query Match 99.4%; Score 766.2; DB 1; Length 771;
Best Local Similarity 99.6%; Pred. No. 0.038;
Matches 768; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 1 GGGCCCCCTCGAAGAAAAGATCGTGGGGGTCAAGAGGCCCCCAAGAGCAAGTGGCCCTGG 60
Db 1 GGGCCCCCTCGAAGAAAAGATCGTGGGGGTCAAGAGGCCCCCAAGAGCAAGTGGCCCTGG 60
QY 61 CAGGTGAGCCTGAGAGATCCACCGCCCAATGATGATGCACTTGTGGGGGGCTCCCTCATC 120
Db 61 CAGGTGAGCCTGAGAGATCCACCGCCCAATGATGATGCACTTGTGGGGGGCTCCCTCATC 120
QY 121 CAGCCCCAGTGGGTGTGACCGGACGGGCACTGGCGTGGGACCGGAGTCAAGATCTGGCC 180
Db 121 CAGCCCCAGTGGGTGTGACCGGACGGGCACTGGCGTGGGACCGGAGTCAAGATCTGGCC 180
QY 181 GCGCTCAGGGTCAACTGGGGGAGGAGCACTTCTAACAAGACAGGCTGTGGCCGGTTC 240
Db 181 GCGCTCAGGGTCAACTGGGGGAGGAGCACTTCTAACAAGACAGGCTGTGGCCGGTTC 240
QY 241 AGCAGGATCATGTCGACCCCAAGTTCATACACCGCCCAAGTGGAGCGGCAATCCCGCTT 300
Db 241 AGCAGGATCATGTCGACCCCAAGTTCATACACCGCCCAAGTGGAGCGGCAATCCCGCTT 300
QY 301 CTGAGCTGAGAGAGCCGGTAAAGTCTTCACGCCACATGTCACAGGATCACTTGGCCCTT 360
Db 301 CTGAGCTGAGAGAGCCGGTAAAGTCTTCACGCCACATGTCACAGGATCACTTGGCCCTT 360
QY 361 GCGTGAAGAGACCTTCCCGGGGAGTCCGTCGAGGTCAGTGGGTCAGTGGGGGGAGTGGAC 420
Db 361 GCGTGAAGAGACCTTCCCGGGGAGTCCGTCGAGGTCAGTGGGTCAGTGGGGGGAGTGGAC 420
QY 421 AATGATGAGCGCCTCCACCGCCATTTCTCTGAAAGCAAGTGAAGTCCCAATATGAA 480
Db 421 AATGATGAGCGCCTCCACCGCCATTTCTCTGAAAGCAAGTGAAGTCCCAATATGAA 480
QY 481 AACCACATTTGTGAGCGCAAAATACCACTTGGCGCTTACACGGGAGACGACGTCCGCAATC 540
Db 481 AACCACATTTGTGAGCGCAAAATACCACTTGGCGCTTACACGGGAGACGACGTCCGCAATC 540
QY 541 GTCCGTGACGACATGCTGTGTGTCGGGAAACACCGGAGGAACTACATGCGGCGCACTCC 600
Db 541 GTCCGTGACGACATGCTGTGTGTCGGGAAACACCGGAGGAACTACATGCGGCGCACTCC 600
QY 601 GGAGGGCCCCCTGTGTGTGCAAGGTGATGGCACTGGCTGCAAGCGGGCGTGTCACTGG 660
Db 601 GGAGGGCCCCCTGTGTGTGCAAGGTGATGGCACTGGCTGCAAGCGGGCGTGTCACTGG 660
QY 661 GCGGAGGGCTGTGTGCCAGCCCAACCGGCTGTGATCTTCAACCGTGTCACTTACTTGG 720
Db 661 GCGGAGGGCTGTGTGCCAGCCCAACCGGCTGTGATCTTCAACCGTGTCACTTACTTGG 720
QY 721 GACTGATCCACCACTATGTCCCAAAAAGCGGTGAAGCGCGCCGCTGCT 771
Db 721 GACTGATCCACCACTATGTCCCAAAAAGCGGTGAAGCGCGCCGCTGCT 771

```

```

RESULT 3
US-09-598-982C-8
; Sequence 8, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPHASES, ACTIVE SITE MUTANTS THEREOF.
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; PRIOR FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 8
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:

```

```

RESULT 4
US-09-598-982C-36
; Sequence 36, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPHASES, ACTIVE SITE MUTANTS THEREOF.
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; PRIOR FILING DATE: 2000-06-21

```



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; PRIOR APPLICATION NUMBER: 09/079,970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 36
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
US-09-598-982C-36

```

Query Match 98.8%; Score 761.4; DB 1; Length 771;

Best Local Similarity 99.2%; Pred. No. 0.04; Mismatches 6; Indels 0; Gaps 0;

```

Matches 765; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
QY 1 GGGCCCTCGAAGAAAAGAAATCTGCGGGGTGAGAGAGCCCGGAGAGCAAGTGGCCCTGG 60
D 1 GGGCCCTCGAAGAAAAGAAATCTGCGGGGTGAGAGAGCCCGGAGAGCAAGTGGCCCTGG 60
QY 61 CAGGTGAGCTGAGAGTCCAGCGCCCATCTGATGCACTTCTGGGGGCTCCCTCATC 120
D 61 CAGGTGAGCTGAGAGTCCAGCGCCCATCTGATGCACTTCTGGGGGCTCCCTCATC 120
QY 121 CACCCCAAGTGGGTGAGACCGGAGCACTGGGGGAGCGGAGCTGAGAGATCTGGCC 180
D 121 CACCCCAAGTGGGTGAGACCGGAGCACTGGGGGAGCGGAGCTGAGAGATCTGGCC 180
QY 181 GCCCTCAGGGTGAACCTGCGGGAGAGCACTCTAATCAAGAGCAAGCTGCGCGCTC 240
D 181 GCCCTCAGGGTGAACCTGCGGGAGAGCACTCTAATCAAGAGCAAGCTGCGCGCTC 240
QY 241 AGCAGATCATCTGACACCCAGTTCTACACCGCCAGATCGGAGCGGCAATGCGCTG 300
D 241 AGCAGATCATCTGACACCCAGTTCTACACCGCCAGATCGGAGCGGCAATGCGCTG 300
QY 301 CTGAGGCTGAGAGAGCGGGTGAAGCTTCCAGCCAGCCAGCCAGCCAGCCAGCCCT 360
D 301 CTGAGGCTGAGAGAGCGGGTGAAGCTTCCAGCCAGCCAGCCAGCCAGCCAGCCCT 360
QY 361 GCTCAGAGACCTTCCCGCGGGAGATGCGGTGCTGAGTCACTGGCTGGGGGAGATG 420
D 361 GCTCAGAGACCTTCCCGCGGGAGATGCGGTGCTGAGTCACTGGCTGGGGGAGATG 420
QY 421 AATGATGAGCGCTCCCAACCGCCATTTCTCTGAAAGCAGTGAAGTCCCATATG 480
D 421 AATGATGAGCGCTCCCAACCGCCATTTCTCTGAAAGCAGTGAAGTCCCATATG 480
QY 481 AACCAATTTGTGAGCGAAATACCACTTGGCGCTTCAAGGGAGAGAGATCCGATC 540
D 481 AACCAATTTGTGAGCGAAATACCACTTGGCGCTTCAAGGGAGAGAGATCCGATC 540
QY 541 GTCCGTGACGATGCTGTGTGCGGGAGACACCGGAGAGACTCATATGCGAGACTCC 600
D 541 GTCCGTGACGATGCTGTGTGCGGGAGACACCGGAGAGACTCATATGCGAGACTCC 600
QY 601 GGAAGGCGCTGTGTGAGAGTGAATGCACTGGCTGAGCGGGGAGTCACTGG 660
D 601 GGAAGGCGCTGTGTGAGAGTGAATGCACTGGCTGAGCGGGGAGTCACTGG 660
QY 661 GGGAGGGCGTGTGTGAGAGTGAATGCACTGGCTGAGCGGGGAGTCACTGG 720
D 661 GGGAGGGCGTGTGTGAGAGTGAATGCACTGGCTGAGCGGGGAGTCACTGG 720
QY 721 GACTGATCCACCACTATGTCCTCCAAAAGCCGTGAAGCGCGCCCTGCT 771
D 721 GACTGATCCACCACTATGTCCTCCAAAAGCCGTGAAGCGCGCCCTGCT 771

```

RESULT 5  
US-09-598-982C-20  
; Sequence 20, Application US/09598982C

```

; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSINASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 20
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
US-09-598-982C-20

```

Query Match 98.5%; Score 759.8; DB 1; Length 771;

Best Local Similarity 99.1%; Pred. No. 0.041; Mismatches 7; Indels 0; Gaps 0;

```

Matches 764; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
QY 1 GGGCCCTCGAAGAAAAGAAATCTGCGGGGTGAGAGAGCCCGGAGAGCAAGTGGCCCTGG 60
D 1 GGGCCCTCGAAGAAAAGAAATCTGCGGGGTGAGAGAGCCCGGAGAGCAAGTGGCCCTGG 60
QY 61 CAGGTGAGCTGAGAGTCCAGCGCCCATCTGATGCACTTCTGGGGGCTCCCTCATC 120
D 61 CAGGTGAGCTGAGAGTCCAGCGCCCATCTGATGCACTTCTGGGGGCTCCCTCATC 120
QY 121 CACCCCAAGTGGGTGAGACCGGAGCACTGGGGGAGCGGAGCTGAGAGATCTGGCC 180
D 121 CACCCCAAGTGGGTGAGACCGGAGCACTGGGGGAGCGGAGCTGAGAGATCTGGCC 180
QY 181 GCCCTCAGGGTGAACCTGCGGGAGAGCACTCTAATCAAGAGCAAGCTGCGCGCTC 240
D 181 GCCCTCAGGGTGAACCTGCGGGAGAGCACTCTAATCAAGAGCAAGCTGCGCGCTC 240
QY 241 AGCAGATCATCTGACACCCAGTTCTACACCGCCAGATCGGAGCGGCAATGCGCTG 300
D 241 AGCAGATCATCTGACACCCAGTTCTACACCGCCAGATCGGAGCGGCAATGCGCTG 300
QY 301 CTGAGGCTGAGAGAGCGGGTGAAGCTTCCAGCCAGCCAGCCAGCCAGCCAGCCCT 360
D 301 CTGAGGCTGAGAGAGCGGGTGAAGCTTCCAGCCAGCCAGCCAGCCAGCCAGCCCT 360
QY 361 GCTCAGAGACCTTCCCGCGGGAGATGCGGTGCTGAGTCACTGGCTGGGGGAGATG 420
D 361 GCTCAGAGACCTTCCCGCGGGAGATGCGGTGCTGAGTCACTGGCTGGGGGAGATG 420
QY 421 AATGATGAGCGCTCCCAACCGCCATTTCTCTGAAAGCAGTGAAGTCCCATATG 480
D 421 AATGATGAGCGCTCCCAACCGCCATTTCTCTGAAAGCAGTGAAGTCCCATATG 480
QY 481 AACCAATTTGTGAGCGAAATACCACTTGGCGCTTCAAGGGAGAGAGATCCGATC 540
D 481 AACCAATTTGTGAGCGAAATACCACTTGGCGCTTCAAGGGAGAGAGATCCGATC 540
QY 541 GTCCGTGACGATGCTGTGTGCGGGAGACACCGGAGAGACTCATATGCGAGACTCC 600
D 541 GTCCGTGACGATGCTGTGTGCGGGAGACACCGGAGAGACTCATATGCGAGACTCC 600
QY 601 GGAAGGCGCTGTGTGAGAGTGAATGCACTGGCTGAGCGGGGAGTCACTGG 660
D 601 GGAAGGCGCTGTGTGAGAGTGAATGCACTGGCTGAGCGGGGAGTCACTGG 660
QY 661 GGGAGGGCGTGTGTGAGAGTGAATGCACTGGCTGAGCGGGGAGTCACTGG 720
D 661 GGGAGGGCGTGTGTGAGAGTGAATGCACTGGCTGAGCGGGGAGTCACTGG 720

```

OY 721 GACTGGATCCACCACTATGTCCCAAAAAGCCGTGAAGCGCCGCTCGT 771  
 DB 721 GACTGGATCCACCACTATGTCCCAAAAAGCCGTGAAGCGCCGCTCGT 771

RESULT 6  
 US-09-598-982C-40  
 ; Sequence 40, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffitt, Mark  
 ; APPLICANT: Haak-Frendescho, Mary

; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASIS, ACTIVE SITE MUTANTS THEREOF,  
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; PRIORITY FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO: 40  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 US-09-598-982C-40

Query Match 98.3%; Score 758.2; DB 1; Length 771;  
 Best Local Similarity 99.0%; Pred. No. 0.041; Mismatches 8; Indels 0; Gaps 0;  
 Matches 763; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

OY 1 GGGCCCCCTCGAAGAAAAGATCGTGGGGGTCAAGAGGCCCCCAGAGCAAGTGGCCCTGG 60  
 DB 1 GGGCCCCCTCGAAGAAAAGATCGTGGGGGTCAAGAGGCCCCCAGAGCAAGTGGCCCTGG 60  
 OY 61 CAGGTGAGCCTGAGAGTCCAGCGCCCATATCTGAGTCACTTCTGCGGGGCTCCCTCATC 120  
 DB 61 CAGGTGAGCCTGAGAGTCCAGCGCCCATATCTGAGTCACTTCTGCGGGGCTCCCTCATC 120  
 OY 121 CACCCCAAGTGGGTGTGACCGCAGGCACTGCGTGGAGCCGAGACGTCAAGGATCTGGCC 180  
 DB 121 CACCCCAAGTGGGTGTGACCGCAGGCACTGCGTGGAGCCGAGACGTCAAGGATCTGGCC 180  
 OY 181 GCCCTCAGGGTCAACTGCGGGAGAGCACTCTACTACAGAGCAAGTGTGGCCGCTC 240  
 DB 181 GCCCTCAGGGTCAACTGCGGGAGAGCACTCTACTACAGAGCAAGTGTGGCCGCTC 240  
 OY 241 AGCAGGATCATGTGCAACCCAGATTCTACACCGCCAGATCGAGCGGCAATCGCCCTG 300  
 DB 241 AGCAGGATCATGTGCAACCCAGATTCTACACCGCCAGATCGAGCGGCAATCGCCCTG 300  
 OY 301 CTGAGAGCTGGAAGCGCGGTGAACGTCTCCAGCCAGTCCACACCGGTCAACCTGCCCCCT 360  
 DB 301 CTGAGAGCTGGAAGCGCGGTGAACGTCTCCAGCCAGTCCACACCGGTCAACCTGCCCCCT 360  
 OY 361 GCCTCAGAGAGACCTTCCCCCGGGAGTCCGTGTGGGTCACTGGGGGCAATGTGAC 420  
 DB 361 GCCTCAGAGAGACCTTCCCCCGGGAGTCCGTGTGGGTCACTGGGGGCAATGTGAC 420  
 OY 421 AATGATGAGCGCTCCCAACCGCATTTCTCTGAAGCAGAGTGAAGGTCCCAATAATGAA 480  
 DB 421 AATGATGAGCGCTCCCAACCGCATTTCTCTGAAGCAGAGTGAAGGTCCCAATAATGAA 480  
 OY 481 AACCAATTGTTGTCGCAAAATAACAACCTTGGCGCTTACAGCGAGACGATCGGCATC 540  
 DB 481 AACCAATTGTTGTCGCAAAATAACAACCTTGGCGCTTACAGCGAGACGATCGGCATC 540  
 OY 541 GTCCGTGACAGATGTGTGTGCGGGGAAACCCCGAGAGGAACTCATGTCAGAGGCGCATCC 600  
 DB 541 GTCCGTGACAGATGTGTGTGCGGGGAAACCCCGAGAGGAACTCATGTCAGAGGCGCATCC 600

DB 541 GTCCGTGACAGATGTGTGTGCGGGGAAACCCCGAGAGGAACTCATGTCAGAGGCGCATCC 600  
 OY 601 GGAAGGCCCTGTGTGTGCAAGTGAATGGACCTGTGCTGCAAGCGCGGTGTGCTGAGCTGG 660  
 DB 601 GGAAGGCCCTGTGTGTGCAAGTGAATGGACCTGTGCTGCAAGCGCGGTGTGCTGAGCTGG 660  
 OY 661 GCGGAGGCTGTGTGCTGCAAGCGCGGTGTGCTGCAAGCGCGGTGTGCTGAGCTGG 720  
 DB 661 GCGGAGGCTGTGTGCTGCAAGCGCGGTGTGCTGCAAGCGCGGTGTGCTGAGCTGG 720  
 OY 721 GACTGGATCCACCACTATGTCCCAAAAAGCCGTGAAGCGCCGCTCGT 771  
 DB 721 GACTGGATCCACCACTATGTCCCAAAAAGCCGTGAAGCGCCGCTCGT 771

RESULT 7  
 US-09-598-982C-42  
 ; Sequence 42, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffitt, Mark  
 ; APPLICANT: Haak-Frendescho, Mary

; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASIS, ACTIVE SITE MUTANTS THEREOF,  
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; PRIORITY FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO: 42  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 US-09-598-982C-42

Query Match 98.3%; Score 758.2; DB 1; Length 771;  
 Best Local Similarity 99.0%; Pred. No. 0.041; Mismatches 8; Indels 0; Gaps 0;  
 Matches 763; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

OY 1 GGGCCCCCTCGAAGAAAAGATCGTGGGGGTCAAGAGGCCCCCAGAGCAAGTGGCCCTGG 60  
 DB 1 GGGCCCCCTCGAAGAAAAGATCGTGGGGGTCAAGAGGCCCCCAGAGCAAGTGGCCCTGG 60  
 OY 61 CAGGTGAGCCTGAGAGTCCAGCGCCCATATCTGAGTCACTTCTGCGGGGCTCCCTCATC 120  
 DB 61 CAGGTGAGCCTGAGAGTCCAGCGCCCATATCTGAGTCACTTCTGCGGGGCTCCCTCATC 120  
 OY 121 CACCCCAAGTGGGTGTGACCGCAGGCACTGCGTGGAGCCGAGACGTCAAGGATCTGGCC 180  
 DB 121 CACCCCAAGTGGGTGTGACCGCAGGCACTGCGTGGAGCCGAGACGTCAAGGATCTGGCC 180  
 OY 181 GCCCTCAGGGTCAACTGCGGGAGAGCACTCTACTACAGAGCAAGTGTGGCCGCTC 240  
 DB 181 GCCCTCAGGGTCAACTGCGGGAGAGCACTCTACTACAGAGCAAGTGTGGCCGCTC 240  
 OY 241 AGCAGGATCATGTGCAACCCAGATTCTACACCGCCAGATCGAGCGGCAATCGCCCTG 300  
 DB 241 AGCAGGATCATGTGCAACCCAGATTCTACACCGCCAGATCGAGCGGCAATCGCCCTG 300  
 OY 301 CTGAGAGCTGGAAGCGCGGTGAACGTCTCCAGCCAGTCCACACCGGTCAACCTGCCCCCT 360  
 DB 301 CTGAGAGCTGGAAGCGCGGTGAACGTCTCCAGCCAGTCCACACCGGTCAACCTGCCCCCT 360  
 OY 361 GCCTCAGAGAGACCTTCCCCCGGGAGTCCGTGTGGGTCACTGGGGGCAATGTGAC 420  
 DB 361 GCCTCAGAGAGACCTTCCCCCGGGAGTCCGTGTGGGTCACTGGGGGCAATGTGAC 420  
 OY 421 AATGATGAGCGCTCCCAACCGCATTTCTCTGAAGCAGAGTGAAGGTCCCAATAATGAA 480  
 DB 421 AATGATGAGCGCTCCCAACCGCATTTCTCTGAAGCAGAGTGAAGGTCCCAATAATGAA 480

```

Db | 421 | AATGATAGAGGGCCCTCCACCGCCATTTCTCTGAAAGAGAGGTGAAGGTCCCATATATGAA | 480
Qy | 481 | AACCAATTGTTGTGACGGAAATACCACTTGGGCGCTTACAGGAGACGAGTCCGATC | 540
Db | 481 | AACCAATTGTTGTGACGGAAATACCACTTGGGCGCTTACAGGAGACGAGTCCGATC | 540
Qy | 541 | GTCCGTAACGACATGCTGTGTGCGGGGAAACCCGGAGGGATCTATGCGAGGGGATC | 600
Db | 541 | GTCCGTAACGACATGCTGTGTGCGGGGAAACCCGGAGGGATCTATGCGAGGGGATC | 600
Qy | 601 | GAGAGGCGCCCTGTGTGTGCAAGTGAATGACCACTGTGCTGACAGCGCGCGTGTG | 660
Db | 601 | GAGAGGCGCCCTGTGTGTGCAAGTGAATGACCACTGTGCTGACAGCGCGCGTGTG | 660
Qy | 661 | GGGGAGGGCTGTGTGCGCCAGCCCAACCGGCTGTGCACTACACCCGTTCACTACTG | 720
Db | 661 | GGGGAGGGCTGTGTGCGCCAGCCCAACCGGCTGTGCACTACACCCGTTCACTACTG | 720
Qy | 721 | GACTGATCCACCACTATGTCTCCAAAAGCGGTAAGCGGCGCGCTCGT | 771
Db | 721 | GACTGATCCACCACTATGTCTCCAAAAGCGGTAAGCGGCGCGCTCGT | 771

```

```

RESULT 8
US-09-598-982C-24
; Sequence 24, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffei, Mark
; APPLICANT: Haek-Frendescho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSINS, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; PRIOR FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 24
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURES:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
US-09-598-982C-24

```

```

Query Match 98.1%; Score 756.6; DB 1; Length 771;
Best Local Similarity 98.8%; Pred. No. 0.042;
Matches 762; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

```

```

Qy | 1 | GGGCCCTCGAAGAAAAGAAATGCTGGGGGATCAGAGAGGCCCCCAGAGCAAGTGGCCCTG | 60
Db | 1 | GGGCCCTCGAAGAAAAGAAATGCTGGGGGATCAGAGAGGCCCCCAGAGCAAGTGGCCCTG | 60
Qy | 61 | CAGGTGAGCCTGAGAGTCCAGCGGCCATTACTGATGCACTTCTGCGGGGCTCCCTCATC | 120
Db | 61 | CAGGTGAGCCTGAGAGTCCAGCGGCCATTACTGATGCACTTCTGCGGGGCTCCCTCATC | 120
Qy | 121 | CACCCCAAGTGGGTGCTGACCGGACCGGCACTGCGTGGGACCGGACGTCAAAGATCTGGCC | 180
Db | 121 | CACCCCAAGTGGGTGCTGACCGGACCGGCACTGCGTGGGACCGGACGTCAAAGATCTGGCC | 180
Qy | 181 | GCCCTCAGGGTGAACCTGCGGAGAGAGCACTTACTTACAGAGCAAGCTGCTCGCGGTC | 240
Db | 181 | GCCCTCAGGGTGAACCTGCGGAGAGAGCACTTACTTACAGAGCAAGCTGCTCGCGGTC | 240
Qy | 241 | AGCAGGATCATGCTGACCCCAAGTTCTACACCGCCAGATCGGAGCGGCAATCGCCCTG | 300
Db | 241 | AGCAGGATCATGCTGACCCCAAGTTCTACACCGCCAGATCGGAGCGGCAATCGCCCTG | 300

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Qy | 301 | CTGAGGCTGAGAGGCGGTTGAACGTTCTCCAGCCACGTCACACGCTCACTCCCTC | 360
Db | 301 | CTGAGGCTGAGAGGCGGTTGAACGTTCTCCAGCCACGTCACACGCTCACTCCCTC | 360
Qy | 361 | GCCTCAGAGACCTTCCCCCGGGAGTCCGCTGTGCTGCTGCTGCTGCTGCTGCTGCTG | 420
Db | 361 | GCCTCAGAGACCTTCCCCCGGGAGTCCGCTGTGCTGCTGCTGCTGCTGCTGCTGCTG | 420
Qy | 421 | AATGATAGAGGCGCTCCACCGCCATTTCTCTGAAAGAGTGAAGTCCCATATATGAA | 480
Db | 421 | AATGATAGAGGCGCTCCACCGCCATTTCTCTGAAAGAGTGAAGTCCCATATATGAA | 480
Qy | 481 | AACCAATTGTTGTGACGGAAATACCACTTGGGCGCTTACAGGAGACGAGTCCGATC | 540
Db | 481 | AACCAATTGTTGTGACGGAAATACCACTTGGGCGCTTACAGGAGACGAGTCCGATC | 540
Qy | 541 | GTCCGTAACGACATGCTGTGTGCGGGGAAACCCGGAGGGATCTATGCTCAAGGCGG | 600
Db | 541 | GTCCGTAACGACATGCTGTGTGCGGGGAAACCCGGAGGGATCTATGCTCAAGGCGG | 600
Qy | 601 | GAGAGGCGCCCTGTGTGTGCAAGTGAATGACCACTGTGCTGACAGGGCGGCTGTG | 660
Db | 601 | GAGAGGCGCCCTGTGTGTGCAAGTGAATGACCACTGTGCTGACAGGGCGGCTGTG | 660
Qy | 661 | GGGGAGGGCTGTGTGCGCCAGCCCAACCGGCTGTGCACTACACCCGTTCACTACTG | 720
Db | 661 | GGGGAGGGCTGTGTGCGCCAGCCCAACCGGCTGTGCACTACACCCGTTCACTACTG | 720
Qy | 721 | GACTGATCCACCACTATGTCTCCAAAAGCGGTAAGCGGCGCGCTCGT | 771
Db | 721 | GACTGATCCACCACTATGTCTCCAAAAGCGGTAAGCGGCGCGCTCGT | 771

```

```

RESULT 9
US-09-598-982C-26
; Sequence 26, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffei, Mark
; APPLICANT: Haek-Frendescho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSINS, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; PRIOR FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 26
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURES:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
US-09-598-982C-26

```

```

Query Match 98.1%; Score 756.6; DB 1; Length 771;
Best Local Similarity 98.8%; Pred. No. 0.042;
Matches 762; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

```

```

Qy | 1 | GGGCCCTCGAAGAAAAGAAATGCTGGGGGATCAGAGAGGCCCCCAGAGCAAGTGGCCCTG | 60
Db | 1 | GGGCCCTCGAAGAAAAGAAATGCTGGGGGATCAGAGAGGCCCCCAGAGCAAGTGGCCCTG | 60
Qy | 61 | CAGGTGAGCCTGAGAGTCCAGCGGCCATTACTGATGCACTTCTGCGGGGCTCCCTCATC | 120
Db | 61 | CAGGTGAGCCTGAGAGTCCAGCGGCCATTACTGATGCACTTCTGCGGGGCTCCCTCATC | 120
Qy | 121 | CACCCCAAGTGGGTGCTGACCGGACCGGCACTGCGTGGGACCGGACGTCAAAGATCTGGCC | 180
Db | 121 | CACCCCAAGTGGGTGCTGACCGGACCGGCACTGCGTGGGACCGGACGTCAAAGATCTGGCC | 180

```

QY 181 GCCCTCAGGGTGCACCTGGGGAGGAGCACTCTACTACAGAGCAAGCTGTGCCGGT 240  
 DB 181 GCCCTCAGGGTGCACCTGGGGAGGAGCACTCTACTACAGAGCAAGCTGTGCCGGT 240  
 QY 241 AGCAGGATTCATGTGTGACCCCAAGTTTCAACCCGCCAGANTGAGAGCGGCAATGCCCTG 300  
 DB 241 AGCAGGATTCATGTGTGACCCCAAGTTTCAACCCGCCAGANTGAGAGCGGCAATGCCCTG 300  
 QY 301 CTGGAGCTGGAGAGGACCGGGTGAACGCTTCACGCCAAGTTCACAGGGATCCCTGCCCT 360  
 DB 301 CTGGAGCTGGAGAGGACCGGGTGAACGCTTCACGCCAAGTTCACAGGGATCCCTGCCCT 360  
 QY 361 GCCTCAGAGACCTTCCCTCCCGGGAGATGCCGTGCTGAGTCACTGGGCGGATGTGAC 420  
 DB 361 GCCTCAGAGACCTTCCCTCCCGGGAGATGCCGTGCTGAGTCACTGGGCGGATGTGAC 420  
 QY 421 AATGATGAGCGCTCCCAACCGGCAATTTCTCTGAAGCAGAGTAAAGTCCCAATATGAA 480  
 DB 421 AATGATGAGCGCTCCCAACCGGCAATTTCTCTGAAGCAGAGTAAAGTCCCAATATGAA 480  
 QY 481 AACCAATTGTGAGCAAAATATACCACTTGGCGCTTACAGCGGAGAGCAAGCTCCGCAATC 540  
 DB 481 AACCAATTGTGAGCAAAATATACCACTTGGCGCTTACAGCGGAGAGCAAGCTCCGCAATC 540  
 QY 541 GTCCGTGACGACATGTGTGTGCCGGGAAACACCCGGAGGACTCATGCGGAGCGACTCC 600  
 DB 541 GTCCGTGACGACATGTGTGTGCCGGGAAACACCCGGAGGACTCATGCGGAGCGACTCC 600  
 QY 601 GGAGGGCCCTGTGTGTGCAAGGTAAATGGCACTGTGGCTGAGAGCGGGCGTGTCAAGCTGG 660  
 DB 601 GGAGGGCCCTGTGTGTGCAAGGTAAATGGCACTGTGGCTGAGAGCGGGCGTGTCAAGCTGG 660  
 QY 661 GGCGAGGGCTGTGTGTGCCAAGGCTTCCCAAAAGCCGTGATCTACACCGGTGTCACTACTG 720  
 DB 661 GGCGAGGGCTGTGTGTGCCAAGGCTTCCCAAAAGCCGTGATCTACACCGGTGTCACTACTG 720

RESULT 10  
 US-09-598-982C-10  
 ; Sequence 10, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffett, Mark  
 ; APPLICANT: Haak-Frendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; PRIOR FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 10  
 ; LENGTH: 735  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (1)..(735)  
 ; US-09-598-982C-10

Query Match 94.7%; Score 730.2; DB 1; Length 735;  
 Best Local Similarity 99.6%; Pred. No. 0.057;  
 Matches 732; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 19 ATCGTGGGGGTCAAGAGGCGCCCAAGAGCAAGTGGCCCTGGAGGCTGAGAGTTC 78

DB 1 ATCGTGGGGGTCAAGAGGCGCCCAAGAGCAAGTGGCCCTGGAGGCTGAGAGTTC 60  
 QY 79 CACGCGCCATATCTGGATGACCTTCTGCGGGGGCTCCCTCATCAACCCCAAGTGGTGTG 138  
 DB 61 CACGCGCCATATCTGGATGACCTTCTGCGGGGGCTCCCTCATCAACCCCAAGTGGTGTG 120  
 QY 139 ACCGAGCGGCACTGGGTGGGACCCGAGCTCAAGATCTGGCCCTTCAAGGATGCAATG 198  
 DB 121 ACCGAGCGGCACTGGGTGGGACCCGAGCTCAAGATCTGGCCCTTCAAGGATGCAATG 180  
 QY 199 GGGAGGAGCACTCTACTATACAGAGCAGGCTGCGGCTCAGCAGGATCATCTGTGAC 258  
 DB 181 GGGAGGAGCACTCTACTATACAGAGCAGGCTGCGGCTCAGCAGGATCATCTGTGAC 240  
 QY 259 CCACAGTTCTACACCCGCCAGATGAGAGCGGCAATGCCCTGTGAGACTGAGAGCGCG 318  
 DB 241 CCACAGTTCTACACCCGCCAGATGAGAGCGGCAATGCCCTGTGAGACTGAGAGCGCG 300  
 QY 319 GTGAAGCTCTCAGGCAAGTGCACACCGGTCAACCTTGCCTTGCCTCAGAGACCTTCC 378  
 DB 301 GTGAAGCTCTCAGGCAAGTGCACACCGGTCAACCTTGCCTTGCCTCAGAGACCTTCC 360  
 QY 379 CCGGGGATGCGGTGCTGGGTGACCTGGCTGGGGGAGTGTGAACTAATGATGAGCGCTCC 438  
 DB 361 CCGGGGATGCGGTGCTGGGTGACCTGGCTGGGGGAGTGTGAACTAATGATGAGCGCTCC 420  
 QY 439 CCGCCATTTCTCTGAGAGCAGGTGAAGGTCCCAATATGAAACCAATTTGTGACGCA 498  
 DB 421 CCGCCATTTCTCTGAGAGCAGGTGAAGGTCCCAATATGAAACCAATTTGTGACGCA 480  
 QY 499 AATATCCACCTTGGGCGCTTACACGGGAAAGCACTTCCGATCTGTCGGTGAAGCAATG 558  
 DB 481 AATATCCACCTTGGGCGCTTACACGGGAAAGCACTTCCGATCTGTCGGTGAAGCAATG 540  
 QY 559 TGTGCGGGGAAACACCCGGAGGAGCTCATGCCAGGCGACTCCGGAGGCGCCCTGGTGTGC 618  
 DB 541 TGTGCGGGGAAACACCCGGAGGAGCTCATGCCAGGCGACTCCGGAGGCGCCCTGGTGTGC 600  
 QY 619 AAGGTGAATGGCACTGTGCTGAGGCGGGCGTGTGCACTGAGCTGAGGCGGCTGTG 678  
 DB 601 AAGGTGAATGGCACTGTGCTGAGGCGGGCGTGTGCACTGAGCTGAGGCGGCTGTG 660  
 QY 679 CCGAAGCGGCTGGATTTACACCGGCTGTCACTACTGAGCTGATCCACGACTAT 738  
 DB 661 CCGAAGCGGCTGGATTTACACCGGCTGTCACTACTGAGCTGATCCACGACTAT 720

RESULT 11  
 US-09-598-982C-8/C  
 ; Sequence 8, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffett, Mark  
 ; APPLICANT: Haak-Frendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; PRIOR FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 8  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS

LOCATION: (7)..(753)  
US-09-598-982C-8

Query Match  
Best Local Similarity 53.1%; Pred. No. 17;  
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

Qy 1 GGGCCCTCGAAGAAAGATGTCGGGGGTCAGAGAGGCCCCAGAGCAAGTGGCCCTGG 60  
Db 113 GAGCCCCCGGAGAGTGCATCAGTATGAGCCCTGAGACTCTCAGGCTCACCTGCCAAGGC 54  
Qy 61 CAGGTGAGCCTGAGAGTCCACGGCCCAATACGATGCACTTCTGCGGGGGCTC 113  
Db 53 CACTTGCTCTGGGGGCTCTGACCCCCGACGATTTCTTTCTCGAAGGGGGCCC 1

RESULT 12  
US-09-598-982C-20/c  
Sequence 20, Application US/09598982C  
GENERAL INFORMATION:  
APPLICANT: Niles, Andrew  
APPLICANT: Mafflet, Mark  
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASERS, ACTIVE SITE MUTANTS THEREOF,  
TITLE OF INVENTION: AND METHODS OF MAKING SAME  
FILE REFERENCE: 34506.104  
CURRENT APPLICATION NUMBER: US/09/598,982C  
CURRENT FILING DATE: 2000-06-21  
PRIOR APPLICATION NUMBER: 09/079,970  
NUMBER OF SEQ ID NOS: 52  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 20  
LENGTH: 771  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: CDS  
LOCATION: (7)..(753)  
US-09-598-982C-20

Query Match  
Best Local Similarity 53.1%; Pred. No. 17;  
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

Qy 1 GGGCCCTCGAAGAAAGATGTCGGGGGTCAGAGAGGCCCCAGAGCAAGTGGCCCTGG 60  
Db 113 GAGCCCCCGGAGAGTGCATCAGTATGAGCCCTGAGACTCTCAGGCTCACCTGCCAAGGC 54  
Qy 61 CAGGTGAGCCTGAGAGTCCACGGCCCAATACGATGCACTTCTGCGGGGGCTC 113  
Db 53 CACTTGCTCTGGGGGCTCTGACCCCCGACGATTTCTTTCTCGAAGGGGGCCC 1

RESULT 13  
US-09-598-982C-22/c  
Sequence 22, Application US/09598982C  
GENERAL INFORMATION:  
APPLICANT: Niles, Andrew  
APPLICANT: Mafflet, Mark  
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASERS, ACTIVE SITE MUTANTS THEREOF,  
TITLE OF INVENTION: AND METHODS OF MAKING SAME  
FILE REFERENCE: 34506.104  
CURRENT APPLICATION NUMBER: US/09/598,982C  
CURRENT FILING DATE: 2000-06-21  
PRIOR APPLICATION NUMBER: 09/079,970  
NUMBER OF SEQ ID NOS: 52  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 22  
LENGTH: 771  
TYPE: DNA

ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: CDS  
LOCATION: (7)..(753)  
US-09-598-982C-22

Query Match  
Best Local Similarity 53.1%; Pred. No. 17;  
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

Qy 1 GGGCCCTCGAAGAAAGATGTCGGGGGTCAGAGAGGCCCCAGAGCAAGTGGCCCTGG 60  
Db 113 GAGCCCCCGGAGAGTGCATCAGTATGAGCCCTGAGACTCTCAGGCTCACCTGCCAAGGC 54  
Qy 61 CAGGTGAGCCTGAGAGTCCACGGCCCAATACGATGCACTTCTGCGGGGGCTC 113  
Db 53 CACTTGCTCTGGGGGCTCTGACCCCCGACGATTTCTTTCTCGAAGGGGGCCC 1

RESULT 14  
US-09-598-982C-24/c  
Sequence 24, Application US/09598982C  
GENERAL INFORMATION:  
APPLICANT: Niles, Andrew  
APPLICANT: Mafflet, Mark  
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASERS, ACTIVE SITE MUTANTS THEREOF,  
TITLE OF INVENTION: AND METHODS OF MAKING SAME  
FILE REFERENCE: 34506.104  
CURRENT APPLICATION NUMBER: US/09/598,982C  
CURRENT FILING DATE: 2000-06-21  
PRIOR APPLICATION NUMBER: 09/079,970  
NUMBER OF SEQ ID NOS: 52  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 24  
LENGTH: 771  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: CDS  
LOCATION: (7)..(753)  
US-09-598-982C-24

Query Match  
Best Local Similarity 53.1%; Pred. No. 17;  
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

Qy 1 GGGCCCTCGAAGAAAGATGTCGGGGGTCAGAGAGGCCCCAGAGCAAGTGGCCCTGG 60  
Db 113 GAGCCCCCGGAGAGTGCATCAGTATGAGCCCTGAGACTCTCAGGCTCACCTGCCAAGGC 54  
Qy 61 CAGGTGAGCCTGAGAGTCCACGGCCCAATACGATGCACTTCTGCGGGGGCTC 113  
Db 53 CACTTGCTCTGGGGGCTCTGACCCCCGACGATTTCTTTCTCGAAGGGGGCCC 1

RESULT 15  
US-09-598-982C-26/c  
Sequence 26, Application US/09598982C  
GENERAL INFORMATION:  
APPLICANT: Niles, Andrew  
APPLICANT: Mafflet, Mark  
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASERS, ACTIVE SITE MUTANTS THEREOF,  
TITLE OF INVENTION: AND METHODS OF MAKING SAME  
FILE REFERENCE: 34506.104  
CURRENT APPLICATION NUMBER: US/09/598,982C  
CURRENT FILING DATE: 2000-06-21  
PRIOR APPLICATION NUMBER: 09/079,970  
NUMBER OF SEQ ID NOS: 52  
SOFTWARE: PatentIn version 3.3

Query Match  
Best Local Similarity 53.1%; Pred. No. 17;  
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

```

; SEQ ID NO 26
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
US-09-598-982C-26

```

```

Query Match
Best Local Similarity 53.1%; Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

```

```

Qy 1 GGGCCCCCTCGAAGAAAAGATGTCGGGGGTCAAGAGGCCCCCAGAGCAAGTGGCCCTGG 60
Db 113 GAGCCCCCGCAGAAAGTGCATCCAGTATGGCCCGTGGACTCTCAGGCTCACCTGCCAGGGC 54
Qy 61 CAGGTGAGCCTGAGAGTCCAGGCCCATATCTGAGTGCATTTCTGGGGGGGCTC 113
Db 53 CACTTGCTCTGGGGGCTCTCTGACCCCGACGATTTCTTTCTCGAGGGGGCC 1

```

```

RESULT 16
US-09-598-982C-36/c
; Sequence 36, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; PRIOR FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 36
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
US-09-598-982C-36

```

```

Query Match
Best Local Similarity 53.1%; Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

```

```

Qy 1 GGGCCCCCTCGAAGAAAAGATGTCGGGGGTCAAGAGGCCCCCAGAGCAAGTGGCCCTGG 60
Db 113 GAGCCCCCGCAGAAAGTGCATCCAGTATGGCCCGTGGACTCTCAGGCTCACCTGCCAGGGC 54
Qy 61 CAGGTGAGCCTGAGAGTCCAGGCCCATATCTGAGTGCATTTCTGGGGGGGCTC 113
Db 53 CACTTGCTCTGGGGGCTCTCTGACCCCGACGATTTCTTTCTCGAGGGGGCC 1

```

```

RESULT 17
US-09-598-982C-38/c
; Sequence 38, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; PRIOR FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970

```

```

; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 38
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
US-09-598-982C-38

```

```

Query Match
Best Local Similarity 53.1%; Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

```

```

Qy 1 GGGCCCCCTCGAAGAAAAGATGTCGGGGGTCAAGAGGCCCCCAGAGCAAGTGGCCCTGG 60
Db 113 GAGCCCCCGCAGAAAGTGCATCCAGTATGGCCCGTGGACTCTCAGGCTCACCTGCCAGGGC 54
Qy 61 CAGGTGAGCCTGAGAGTCCAGGCCCATATCTGAGTGCATTTCTGGGGGGGCTC 113
Db 53 CACTTGCTCTGGGGGCTCTCTGACCCCGACGATTTCTTTCTCGAGGGGGCC 1

```

```

RESULT 18
US-09-598-982C-40/c
; Sequence 40, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; PRIOR FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 40
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
US-09-598-982C-40

```

```

Query Match
Best Local Similarity 53.1%; Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

```

```

Qy 1 GGGCCCCCTCGAAGAAAAGATGTCGGGGGTCAAGAGGCCCCCAGAGCAAGTGGCCCTGG 60
Db 113 GAGCCCCCGCAGAAAGTGCATCCAGTATGGCCCGTGGACTCTCAGGCTCACCTGCCAGGGC 54
Qy 61 CAGGTGAGCCTGAGAGTCCAGGCCCATATCTGAGTGCATTTCTGGGGGGGCTC 113
Db 53 CACTTGCTCTGGGGGCTCTCTGACCCCGACGATTTCTTTCTCGAGGGGGCC 1

```

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RESULT 19
US-09-598-982C-42/c
; Sequence 42, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104

```

```

; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 42
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
US-09-598-982C-42

```

```

Query Match      3.7%: Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%: Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

```

```

Qy 1 GGGCCCCCGAAGAAAGATGTCGGGGGTCAGAGAGCCCCCAAGAGAGTGGCCCTGG 60
    |||||
Db 113 GAGCCCCCGGAGAGTGCATCAGATGGGCGCGTGCACCTCCAGGCTCACCTCCAGGCG 54
    |||||
Qy 61 CAGGTGAGCCTGAGAGTCCAGCGCCCATATGATGCACTTCTGGGGGGGCTC 113
    |||||
Db 53 CACTTGGCTCTGGGGGGGCTCCTGACCCCGAGCATTTCTTCTCGAGGGGCC 1
    |||||

```

```

RESULT 20
US-09-598-982C-10/c
; Sequence 10, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffett, Mark
; APPLICANT: Haak-Frendschio, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPPASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 10
; LENGTH: 735
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(735)
US-09-598-982C-10

```

```

Query Match      3.0%: Score 22.8; DB 1; Length 735;
Best Local Similarity 44.0%: Pred. No. 18;
Matches 96; Conservative 0; Mismatches 122; Indels 0; Gaps 0;

```

```

Qy 49 AAGTGGCCCTGGAGGTTGAGGCTTGAAGTCCAGGGCCATPACTGGAGCACTTTCGGGG 108
    |||||
Db 248 AACGTGGGTGACAGATGATCTCTGACCGGACAGCTGTCTCTGTAGTAGAGGTGC 189
    |||||
Qy 109 GGGTCCCTCAATCCACCCCAAGTGGTGTGACCGGAGGCACTGGGTGGGACCGGAAGTTC 168
    |||||
Db 188 TGCTCCCGAGTTCACCTCTGAGGCGCGCCAGATCTTTGAGTCCCGGTTCCACGCAATGC 129
    |||||
Qy 169 AAGGATCTGGCCGCTCAAGGTCACACTGGGAGGACCACTTACTACAGAGCCAG 228
    |||||
Db 128 GCTCGGGTCAGACACCACTGGGGGTGATGAGGAGGCCCGGCAAGAGTGCATCCAGTAT 69
    |||||
Qy 229 CTGCTGGCGGTCAAGAGATATGTGTGACCCCAAGATT 266
    |||||
Db 68 GGGCGGTGAGACTCTCAAGGCTCACTGCGGACCCCTGCGGACCACTT 31
    |||||

```

```

Search completed: August 26, 2005, 12:32:34
Job time : 3.81314 secs
GenCore version 5.1.6
Copyright (c) 1993 - 2005 CompuGen Ltd.

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OM nucleic - nucleic search, using sw model
Run on: August 26, 2005, 12:31:55 ; Search time 2.81314 Seconds
        (without alignments)
        4.206 Million cell updates/sec

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Title: US-09-598-982C-40
Perfect score: 771
Sequence: 1 gggcccccgcagaagaagaat.....cgtgaagcggcgccgctcgt 771
Scoring table: IDENTITY NUC
                Gapop 10.0, Gapext 0.5
Searched: 10 seqs, 7674 residues
Total number of hits satisfying chosen parameters: 20
Minimum DB seq length: 0
Maximum DB seq length: inf
Post-processing: Minimum Match 0%
                  Maximum Match 100%
                  Listing first 20 summaries

```

```

Database : US09598982C_rev.seq:*
Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.
SUMMARIES

```

Result No.	Score	Query Match	Length	DB ID	Description
1	771	100.0	771	1	US-09-598-982C-40 Sequence 40, Appl
2	759.4	99.8	771	1	US-09-598-982C-24 Sequence 24, Appl
3	766.2	99.4	771	1	US-09-598-982C-42 Sequence 42, Appl
4	764.6	99.2	771	1	US-09-598-982C-26 Sequence 26, Appl
5	759.8	98.5	771	1	US-09-598-982C-8 Sequence 8, Appl
6	758.2	98.3	771	1	US-09-598-982C-38 Sequence 38, Appl
7	756.6	98.1	771	1	US-09-598-982C-22 Sequence 22, Appl
8	755	97.9	771	1	US-09-598-982C-36 Sequence 36, Appl
9	753.4	97.7	771	1	US-09-598-982C-20 Sequence 20, Appl
10	723.8	93.9	735	1	US-09-598-982C-10 Sequence 10, Appl
11	28.2	3.7	771	1	US-09-598-982C-8 Sequence 8, Appl
12	28.2	3.7	771	1	US-09-598-982C-20 Sequence 20, Appl
13	28.2	3.7	771	1	US-09-598-982C-22 Sequence 22, Appl
14	28.2	3.7	771	1	US-09-598-982C-24 Sequence 24, Appl
15	28.2	3.7	771	1	US-09-598-982C-26 Sequence 26, Appl
16	28.2	3.7	771	1	US-09-598-982C-36 Sequence 36, Appl
17	28.2	3.7	771	1	US-09-598-982C-38 Sequence 38, Appl
18	28.2	3.7	771	1	US-09-598-982C-40 Sequence 40, Appl
19	28.2	3.7	771	1	US-09-598-982C-42 Sequence 42, Appl
20	25.6	3.3	735	1	US-09-598-982C-10 Sequence 10, Appl

```

RESULT 1
US-09-598-982C-40
; Sequence 40, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew

```

ALIGNMENTS

```

; APPLICANT: Mafitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSINS, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 40
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-40

```

```

Query Match      100.0%; Score 771; DB 1; Length 771;
Best Local Similarity 100.0%; Pred. No. 0.037;
Matches 771; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

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Oy 1 GGGCCCTTCGAGAAAAGATGTCGCGGGGTGAGAGGCCCCGAGAGCAAGTGGCCCTGG 60
Db 1 GGGCCCTTCGAGAAAAGATGTCGCGGGGTGAGAGGCCCCGAGAGCAAGTGGCCCTGG 60
Oy 61 CAGGTGAGCCTGAGATGTCGAGGCGCCATGCTGAGGAGCACTTCTGCGGGGCTCCCTCATC 120
Db 61 CAGGTGAGCCTGAGATGTCGAGGCGCCATGCTGAGGAGCACTTCTGCGGGGCTCCCTCATC 120
Oy 121 CACCCCGAGTGGGTGTCAGCCGAGCACTGCTGAGGAGCCGAGAGCTCAAGGATCTGACC 180
Db 121 CACCCCGAGTGGGTGTCAGCCGAGCACTGCTGAGGAGCCGAGAGCTCAAGGATCTGACC 180
Oy 181 GCGCTCAGGGTCAACTGCGGGAGGAGCACTCTCACTCAAGAGCAAGCTGCTGCGGGTTC 240
Db 181 GCGCTCAGGGTCAACTGCGGGAGGAGCACTCTCACTCAAGAGCAAGCTGCTGCGGGTTC 240
Oy 241 AGCAGATCATGTCGAGCCAGGATGTCACCGCCGAGATGAGAGCGGAGCAATGGCCCTG 300
Db 241 AGCAGATCATGTCGAGCCAGGATGTCACCGCCGAGATGAGAGCGGAGCAATGGCCCTG 300
Oy 301 CTGAGAGTGGAGAGCGGTCGAACGTCCTCAGCCAGCTCAAGGATCTGAGCCCTT 360
Db 301 CTGAGAGTGGAGAGCGGTCGAACGTCCTCAGCCAGCTCAAGGATCTGAGCCCTT 360
Oy 361 GCGTCAAGAGACTTCCCGGGGAGTCCGTCGCTGGGTCACTGGCTGGGGGATGTTGAGC 420
Db 361 GCGTCAAGAGACTTCCCGGGGAGTCCGTCGCTGGGTCACTGGCTGGGGGATGTTGAGC 420
Oy 421 AATGATGAGCGGCTCCACCGGCATTTCTCTGAAAGCAGATGTAAGGTTCCCAATATGAA 480
Db 421 AATGATGAGCGGCTCCACCGGCATTTCTCTGAAAGCAGATGTAAGGTTCCCAATATGAA 480
Oy 481 AACCAATTTTGGAGCGCAAAATATCACTTGGCGCTTACAGCGAGAGCAAGCTCCGCATC 540
Db 481 AACCAATTTTGGAGCGCAAAATATCACTTGGCGCTTACAGCGAGAGCAAGCTCCGCATC 540
Oy 541 GTCCTGAGCAGCATGCTGTGTGTCGGGAAACCCCGAGGAGACTCATGTCAAGCGCAGCC 600
Db 541 GTCCTGAGCAGCATGCTGTGTGTCGGGAAACCCCGAGGAGACTCATGTCAAGCGCAGCC 600
Oy 601 GCGCGAATCTGATGTCGAGGATGTAATGAGCAGCTGAGGAGCGGAGCGGATGAGCTGG 660
Db 601 GCGCGAATCTGATGTCGAGGATGTAATGAGCAGCTGAGGAGCGGAGCGGATGAGCTGG 660
Oy 661 GCGAGAGGCTGTGTCAGAGCCAAACCGGCTGGCATTAACCCGATCACTTAATCTTGG 720
Db 661 GCGAGAGGCTGTGTCAGAGCCAAACCGGCTGGCATTAACCCGATCACTTAATCTTGG 720
Oy 721 GACTGATCAACCACTATGTCCTCCAAAAGGCGGAGCGGCGGCTGCT 771

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Db 721 GACTGATCAACCACTATGTCCTCCAAAAGGCGGAGCGGCGGCTGCT 771
RESULT 2
US-09-598-982C-24
; Sequence 24, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Mafitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSINS, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 24
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-24

```

```

Query Match      99.8%; Score 769.4; DB 1; Length 771;
Best Local Similarity 99.8%; Pred. No. 0.037;
Matches 770; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Oy 1 GGGCCCTTCGAGAAAAGATGTCGCGGGGTGAGAGGCCCCGAGAGCAAGTGGCCCTGG 60
Db 1 GGGCCCTTCGAGAAAAGATGTCGCGGGGTGAGAGGCCCCGAGAGCAAGTGGCCCTGG 60
Oy 61 CAGGTGAGCCTGAGATGTCGAGGCGCCATGCTGAGGAGCACTTCTGCGGGGCTCCCTCATC 120
Db 61 CAGGTGAGCCTGAGATGTCGAGGCGCCATGCTGAGGAGCACTTCTGCGGGGCTCCCTCATC 120
Oy 121 CACCCCGAGTGGGTGTCAGCCGAGCACTGCTGAGGAGCCGAGAGCTCAAGGATCTGACC 180
Db 121 CACCCCGAGTGGGTGTCAGCCGAGCACTGCTGAGGAGCCGAGAGCTCAAGGATCTGACC 180
Oy 181 GCGCTCAGGGTCAACTGCGGGAGGAGCACTCTCACTCAAGAGCAAGCTGCTGCGGGTTC 240
Db 181 GCGCTCAGGGTCAACTGCGGGAGGAGCACTCTCACTCAAGAGCAAGCTGCTGCGGGTTC 240
Oy 241 AGCAGATCATGTCGAGCCAGGATGTCACCGCCGAGATGAGAGCGGAGCAATGGCCCTG 300
Db 241 AGCAGATCATGTCGAGCCAGGATGTCACCGCCGAGATGAGAGCGGAGCAATGGCCCTG 300
Oy 301 CTGAGAGTGGAGAGCGGTCGAACGTCCTCAGCCAGCTCAAGGATCTGAGCCCTT 360
Db 301 CTGAGAGTGGAGAGCGGTCGAACGTCCTCAGCCAGCTCAAGGATCTGAGCCCTT 360
Oy 361 GCGTCAAGAGACTTCCCGGGGAGTCCGTCGCTGGGTCACTGGCTGGGGGATGTTGAGC 420
Db 361 GCGTCAAGAGACTTCCCGGGGAGTCCGTCGCTGGGTCACTGGCTGGGGGATGTTGAGC 420
Oy 421 AATGATGAGCGGCTCCACCGGCATTTCTCTGAAAGCAGATGTAAGGTTCCCAATATGAA 480
Db 421 AATGATGAGCGGCTCCACCGGCATTTCTCTGAAAGCAGATGTAAGGTTCCCAATATGAA 480
Oy 481 AACCAATTTTGGAGCGCAAAATATCACTTGGCGCTTACAGCGAGAGCAAGCTCCGCATC 540
Db 481 AACCAATTTTGGAGCGCAAAATATCACTTGGCGCTTACAGCGAGAGCAAGCTCCGCATC 540
Oy 541 GTCCTGAGCAGCATGCTGTGTGTCGGGAAACCCCGAGGAGACTCATGTCAAGCGCAGCC 600
Db 541 GTCCTGAGCAGCATGCTGTGTGTCGGGAAACCCCGAGGAGACTCATGTCAAGCGCAGCC 600

```



QY 601 GCGGCACTCTGTGTGTGCAAGTGAATGGCACTGGCTGCAGCGGGGCTGTCACTGG 660  
 Db 601 GCGGCACTCTGTGTGTGCAAGTGAATGGCACTGGCTGCAGCGGGGCTGTCACTGG 660  
 QY 661 GCGGAGGGCTGTGTGTGCAAGTGAATGGCACTGGCTGCAGCGGGGCTGTCACTGG 720  
 Db 661 GCGGAGGGCTGTGTGTGCAAGTGAATGGCACTGGCTGCAGCGGGGCTGTCACTGG 720  
 QY 721 GACTGATCCACCACTATGTCCCAAAAAGCGTGAAGCGGGCCGCGCTGT 771  
 Db 721 GACTGATCCACCACTATGTCCCAAAAAGCGTGAAGCGGGCCGCGCTGT 771

RESULT 3  
 US-09-598-982C-42  
 ; Sequence 42, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffett, Mark  
 ; APPLICANT: Haak-Frendescho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSINS, ACTIVE SITE MUTANTS THEREOF,  
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; PRIOR FILING DATE: 2000-06-21  
 ; PRIORITY APPLICATION NUMBER: 09/079,970  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 42  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 ; US-09-598-982C-42

Query Match 99.4%; Score 766.2; DB 1; Length 771;  
 Best Local Similarity 99.6%; Pred. No. 0.038; Mismatches 3; Indels 0; Gaps 0;  
 Matches 768; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 1 GGGCCCTCGAAGAAAAGATGTCGGGGGTGAGAGGCCCCCAAGAGCAAGTGGCCCTGG 60  
 Db 1 GGGCCCTCGAAGAAAAGATGTCGGGGGTGAGAGGCCCCCAAGAGCAAGTGGCCCTGG 60  
 QY 61 CAGGTGACCTGAGAGTCCACGGCCCATATGATGCACTTCTGCGGGGCTCCCTCATC 120  
 Db 61 CAGGTGACCTGAGAGTCCACGGCCCATATGATGCACTTCTGCGGGGCTCCCTCATC 120  
 QY 121 CACCCCGTGGGTGTGACCGGACCGGACCTGTGCGGAGCCGGAGCTGAAGATTTGGCC 180  
 Db 121 CACCCCGTGGGTGTGACCGGACCGGACCTGTGCGGAGCCGGAGCTGAAGATTTGGCC 180  
 QY 181 GCGCTCAGGGTGAACCTGCGGGAGAGCACTCTAACAAGACAGCTGTGCGGGTCC 240  
 Db 181 GCGCTCAGGGTGAACCTGCGGGAGAGCACTCTAACAAGACAGCTGTGCGGGTCC 240  
 QY 241 AGCAGGATCATCTGTGCAACCAAGTTTCAACCGCCCAAGATCGAGCGCAATCGCCCTG 300  
 Db 241 AGCAGGATCATCTGTGCAACCAAGTTTCAACCGCCCAAGATCGAGCGCAATCGCCCTG 300  
 QY 301 CTGAGACTGAGAGAGCGGTGAAGCTTTCAGCCAGTTCACAGCTCACTGCGCCCT 360  
 Db 301 CTGAGACTGAGAGAGCGGTGAAGCTTTCAGCCAGTTCACAGCTCACTGCGCCCT 360  
 QY 361 GCCTCAGAGACCTTCCCGCGGGAGATGCGGTCTGTGGTCACTGGCTGGAGATGTGGAC 420  
 Db 361 GCCTCAGAGACCTTCCCGCGGGAGATGCGGTCTGTGGTCACTGGCTGGAGATGTGGAC 420  
 QY 421 AATGATGAGCGCTTCCACCGGCATTTCTCTGAAGCAAGTGAAGTCCCAATAATGGAA 480  
 Db 421 AATGATGAGCGCTTCCACCGGCATTTCTCTGAAGCAAGTGAAGTCCCAATAATGGAA 480

QY 481 AACCAATTTGTGACGGAATAACCACTTGGCGCTTACACGGGAGACAGTCCGCAATC 540  
 Db 481 AACCAATTTGTGACGGAATAACCACTTGGCGCTTACACGGGAGACAGTCCGCAATC 540  
 QY 541 GTCCGTGACGACATCTGTGTGCGGGAGACACCGGGAGGACTATGTCAAGGCAAGCC 600  
 Db 541 GTCCGTGACGACATCTGTGTGCGGGAGACACCGGGAGGACTATGTCAAGGCAAGCC 600  
 QY 601 GCGGACCTGTGTGTGCAAGTGAATGGCACTGGCTGCAGCGGGGCTGTCACTGG 660  
 Db 601 GCGGACCTGTGTGTGCAAGTGAATGGCACTGGCTGCAGCGGGGCTGTCACTGG 660  
 QY 661 GCGGAGGGCTGTGTGTGCAAGTGAATGGCACTGGCTGCAGCGGGGCTGTCACTGG 720  
 Db 661 GCGGAGGGCTGTGTGTGCAAGTGAATGGCACTGGCTGCAGCGGGGCTGTCACTGG 720  
 QY 721 GACTGATCCACCACTATGTCCCAAAAAGCGTGAAGCGGGCCGCGCTGT 771  
 Db 721 GACTGATCCACCACTATGTCCCAAAAAGCGTGAAGCGGGCCGCGCTGT 771

RESULT 4  
 US-09-598-982C-26  
 ; Sequence 26, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffett, Mark  
 ; APPLICANT: Haak-Frendescho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSINS, ACTIVE SITE MUTANTS THEREOF,  
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; PRIOR FILING DATE: 2000-06-21  
 ; PRIORITY APPLICATION NUMBER: 09/079,970  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 26  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 ; US-09-598-982C-26

Query Match 99.2%; Score 764.6; DB 1; Length 771;  
 Best Local Similarity 99.5%; Pred. No. 0.039; Mismatches 4; Indels 0; Gaps 0;  
 Matches 767; Conservative 0; Mismatches 4; Indels 0; Gaps 0;  
 QY 1 GGGCCCTCGAAGAAAAGATGTCGGGGGTGAGAGGCCCCCAAGAGCAAGTGGCCCTGG 60  
 Db 1 GGGCCCTCGAAGAAAAGATGTCGGGGGTGAGAGGCCCCCAAGAGCAAGTGGCCCTGG 60  
 QY 61 CAGGTGACCTGAGAGTCCACGGCCCATATGATGCACTTCTGCGGGGCTCCCTCATC 120  
 Db 61 CAGGTGACCTGAGAGTCCACGGCCCATATGATGCACTTCTGCGGGGCTCCCTCATC 120  
 QY 121 CACCCCGTGGGTGTGACCGGACCGGACCTGTGCGGAGCCGGAGCTGAAGATTTGGCC 180  
 Db 121 CACCCCGTGGGTGTGACCGGACCGGACCTGTGCGGAGCCGGAGCTGAAGATTTGGCC 180  
 QY 181 GCGCTCAGGGTGAACCTGCGGGAGAGCACTCTAACAAGACAGCTGTGCGGGTCC 240  
 Db 181 GCGCTCAGGGTGAACCTGCGGGAGAGCACTCTAACAAGACAGCTGTGCGGGTCC 240  
 QY 241 AGCAGGATCATCTGTGCAACCAAGTTTCAACCGCCCAAGATCGAGCGCAATCGCCCTG 300  
 Db 241 AGCAGGATCATCTGTGCAACCAAGTTTCAACCGCCCAAGATCGAGCGCAATCGCCCTG 300  
 QY 301 CTGAGACTGAGAGAGCGGTGAAGCTTTCAGCCAGTTCACAGCTCACTGCGCCCT 360  
 Db 301 CTGAGACTGAGAGAGCGGTGAAGCTTTCAGCCAGTTCACAGCTCACTGCGCCCT 360

Db 301 CTGAGCTGGAGAGAGCCGGTGAAGCTCTCCAGCCACGCTCCACACCGGTCACTGCCCTT 360  
 Qy 361 GCCTCAGAGAGACTTCCCGCCGGGAGATGCCGTGCTGGGTCACTGGCTGGGGCCGATGTGAC 420  
 Db 361 GCCTCAGAGAGACTTCCCGCCGGGAGATGCCGTGCTGGGTCACTGGCTGGGGCCGATGTGAC 420  
 Qy 421 AATGATGAGCGCTCCCAACCCGCAATTTCTCTGAAGCAGAGTGAAGTCCCAATAATGAA 480  
 Db 421 AATGATGAGCGCTCCCAACCCGCAATTTCTCTGAAGCAGAGTGAAGTCCCAATAATGAA 480  
 Qy 481 AACCAATTTGATGACGCAAAATATACCACTTTGGGCGCTTACACCGGAGAGACGATCCGCATC 540  
 Db 481 AACCAATTTGATGACGCAAAATATACCACTTTGGGCGCTTACACCGGAGAGACGATCCGCATC 540  
 Qy 541 GTCCTGATGACGATGTGTGTGTCGCCGGGAAACCCCGGAGGAGACTATGTCAAGCCGCA 600  
 Db 541 GTCCTGATGACGATGTGTGTGTCGCCGGGAAACCCCGGAGGAGACTATGTCAAGCCGCA 600  
 Qy 601 GCGCGAATCTGTGTGTGTCGCAAGGTGAATGGCACTGTGGCTGAGAGCGGGGCTGTCA 660  
 Db 601 GCGCGAATCTGTGTGTGTCGCAAGGTGAATGGCACTGTGGCTGAGAGCGGGGCTGTCA 660  
 Qy 661 GCGCGAATCTGTGTGTGTCGCAAGGTGAATGGCACTGTGGCTGAGAGCGGGGCTGTCA 720  
 Db 661 GCGCGAATCTGTGTGTGTCGCAAGGTGAATGGCACTGTGGCTGAGAGCGGGGCTGTCA 720  
 Qy 721 GACTGGATCCACCACTATGTCCCAAAAAGCCGTGAAGCGCCGCTGCT 771  
 Db 721 GACTGGATCCACCACTATGTCCCAAAAAGCCGTGAAGCGCCGCTGCT 771

RESULT 5  
 US-09-598-982C-8  
 ; Sequence 8, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffett, Mark  
 ; APPLICANT: Haak-Frendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; PRIOR FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 8  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 US-09-598-982C-8

Query Match 98.5%; Score 759.8; DB 1; Length 771;  
 Best Local Similarity 99.1%; Pred. No. 0.041;  
 Matches 764; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Db 181 GCGCTCAGAGAGACTTCCCGCCGGGAGATGCCGTGCTGGGTCACTGGCTGGGGCCGATGTGAC 240  
 Qy 241 AGCAGATCATCTGTGACCCCAAGTTCTAACAACCCGCAATTCGAGCCGAGACATCGCCCTG 300  
 Db 241 AGCAGATCATCTGTGACCCCAAGTTCTAACAACCCGCAATTCGAGCCGAGACATCGCCCTG 300  
 Qy 301 CTGAGCTGGAGAGCGCGGTGAACGTCTCCAGCCAGCTCCACAGGCTCAACCTTCCCTCC 360  
 Db 301 CTGAGCTGGAGAGCGCGGTGAACGTCTCCAGCCAGCTCCACAGGCTCAACCTTCCCTCC 360  
 Qy 361 GCCTCAGAGAGACTTCCCGCCGGGAGATGCCGTGCTGGGTCACTGGCTGGGGCCGATGTGAC 420  
 Db 361 GCCTCAGAGAGACTTCCCGCCGGGAGATGCCGTGCTGGGTCACTGGCTGGGGCCGATGTGAC 420  
 Qy 421 AATGATGAGCGCTCCCAACCCGCAATTTCTCTGAAGCAGAGTGAAGTCCCAATAATGAA 480  
 Db 421 AATGATGAGCGCTCCCAACCCGCAATTTCTCTGAAGCAGAGTGAAGTCCCAATAATGAA 480  
 Qy 481 AACCAATTTGATGACGCAAAATATACCACTTTGGGCGCTTACACCGGAGAGACGATCCGCATC 540  
 Db 481 AACCAATTTGATGACGCAAAATATACCACTTTGGGCGCTTACACCGGAGAGACGATCCGCATC 540  
 Qy 541 GTCCTGATGACGATGTGTGTGTCGCCGGGAAACCCCGGAGGAGACTATGTCAAGCCGCA 600  
 Db 541 GTCCTGATGACGATGTGTGTGTCGCCGGGAAACCCCGGAGGAGACTATGTCAAGCCGCA 600  
 Qy 601 GCGCGAATCTGTGTGTGTCGCAAGGTGAATGGCACTGTGGCTGAGAGCGGGGCTGTCA 660  
 Db 601 GCGCGAATCTGTGTGTGTCGCAAGGTGAATGGCACTGTGGCTGAGAGCGGGGCTGTCA 660  
 Qy 661 GCGCGAATCTGTGTGTGTCGCAAGGTGAATGGCACTGTGGCTGAGAGCGGGGCTGTCA 720  
 Db 661 GCGCGAATCTGTGTGTGTCGCAAGGTGAATGGCACTGTGGCTGAGAGCGGGGCTGTCA 720  
 Qy 721 GACTGGATCCACCACTATGTCCCAAAAAGCCGTGAAGCGCCGCTGCT 771  
 Db 721 GACTGGATCCACCACTATGTCCCAAAAAGCCGTGAAGCGCCGCTGCT 771

RESULT 6  
 US-09-598-982C-38  
 ; Sequence 38, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffett, Mark  
 ; APPLICANT: Haak-Frendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; PRIOR FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 38  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 US-09-598-982C-38

Query Match 98.3%; Score 758.2; DB 1; Length 771;  
 Best Local Similarity 99.0%; Pred. No. 0.041;  
 Matches 763; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

```

Qy 61 CAGGTGAGCTGAGAGTCCACGGCCATATCTGATGCACTTCTGCGGGGCTCCCTCATC 120
Db 61 CAGGTGAGCTGAGAGTCCACGGCCATATCTGATGCACTTCTGCGGGGCTCCCTCATC 120
Qy 121 CACCCCGAGTGGGTCTGACCGGACGGGCACTGCGTGGGACCGGACGTGAAGATCTGGCC 180
Db 121 CACCCCGAGTGGGTCTGACCGGACGGGCACTGCGTGGGACCGGACGTGAAGATCTGGCC 180
Qy 181 GCCCTCAGGGGTGCAATCTGGGGAGGAGGACCGTCTACCTACGAGACCACTGCTGCGGATC 240
Db 181 GCCCTCAGGGGTGCAATCTGGGGAGGAGGACCGTCTACCTACGAGACCACTGCTGCGGATC 240
Qy 241 AGCAGATCATCTGTCACCCACAGTCTTACACCGCCAGATCGAGCGGACGATCGCCCTG 300
Db 241 AGCAGATCATCTGTCACCCACAGTCTTACACCGCCAGATCGAGCGGACGATCGCCCTG 300
Qy 301 CTGAGGCTGAGAGAGCCGGTGAAGCTCTCCAGCCACGTCACACGGTCACTGCGCCCT 360
Db 301 CTGAGGCTGAGAGAGCCGGTGAAGCTCTCCAGCCACGTCACACGGTCACTGCGCCCT 360
Qy 361 GCCCTCAGAGACCTTCCCGGGGAGTGGCGTGGGTCAGTGGGCTGGGCGTGGGATGTGGAC 420
Db 361 GCCCTCAGAGACCTTCCCGGGGAGTGGCGTGGGTCAGTGGGCTGGGCGTGGGATGTGGAC 420
Qy 421 AATGATGAGCCCTCCACCGCCATTTCTCTGAAGCAGGTGAAGTCCCATTAATGGA 480
Db 421 AATGATGAGCCCTCCACCGCCATTTCTCTGAAGCAGGTGAAGTCCCATTAATGGA 480
Qy 481 AACCAATTGTGACGCAAAATAACCACTTGGCGCTTACAGGGAGAGAGAGTCCGATC 540
Db 481 AACCAATTGTGACGCAAAATAACCACTTGGCGCTTACAGGGAGAGAGAGTCCGATC 540
Qy 541 GTCCGTGACGACATGCTGTGTGGCGGGAAACCCCGGAGAGATGATGCAAGGCGGACCC 600
Db 541 GTCCGTGACGACATGCTGTGTGGCGGGAAACCCCGGAGAGATGATGCAAGGCGGACCC 600
Qy 601 GCGCGAACCCTGTGTGTGTGCAAGGTGATGCACTTGGCTGCAAGCGCGGCTGGTCACTGG 660
Db 601 GCGCGAACCCTGTGTGTGTGCAAGGTGATGCACTTGGCTGCAAGCGCGGCTGGTCACTGG 660
Qy 661 GCGCGAACCCTGTGTGTGTGCAAGGTGATGCACTTGGCTGCAAGCGCGGCTGGTCACTGG 720
Db 661 GCGCGAACCCTGTGTGTGTGCAAGGTGATGCACTTGGCTGCAAGCGCGGCTGGTCACTGG 720
Qy 721 GACTGATCCACCACTATGTCCTCCAAAAAGCCGTGAAGCCGCGCTGCT 771
Db 721 GACTGATCCACCACTATGTCCTCCAAAAAGCCGTGAAGCCGCGCTGCT 771

```

```

RESULT 7
US-09-598-982C-22
; Sequence 22, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffiic, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASIS, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 22
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURES:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-22

```

```

Qy 1 GGGCCCTCGAAGAAAAGATCTGCGGGGTCAAGAGGCGCCCGACAGAGCAAGTGGCCCTGG 60
Db 1 GGGCCCTCGAAGAAAAGATCTGCGGGGTCAAGAGGCGCCCGACAGAGCAAGTGGCCCTGG 60
Qy 61 CAGGTGAGCTGAGAGTCCACGGCCATATCTGATGCACTTCTGCGGGGCTCCCTCATC 120
Db 61 CAGGTGAGCTGAGAGTCCACGGCCATATCTGATGCACTTCTGCGGGGCTCCCTCATC 120
Qy 121 CACCCCGAGTGGGTCTGACCGGACGGGCACTGCGTGGGACCGGACGTGAAGATCTGGCC 180
Db 121 CACCCCGAGTGGGTCTGACCGGACGGGCACTGCGTGGGACCGGACGTGAAGATCTGGCC 180
Qy 181 GCCCTCAGGGGTGCAATCTGGGGAGGAGGACCGTCTACCTACGAGACCACTGCTGCGGATC 240
Db 181 GCCCTCAGGGGTGCAATCTGGGGAGGAGGACCGTCTACCTACGAGACCACTGCTGCGGATC 240
Qy 241 AGCAGATCATCTGTCACCCACAGTCTTACACCGCCAGATCGAGCGGACGATCGCCCTG 300
Db 241 AGCAGATCATCTGTCACCCACAGTCTTACACCGCCAGATCGAGCGGACGATCGCCCTG 300
Qy 301 CTGAGGCTGAGAGAGCCGGTGAAGCTCTCCAGCCACGTCACACGGTCACTGCGCCCT 360
Db 301 CTGAGGCTGAGAGAGCCGGTGAAGCTCTCCAGCCACGTCACACGGTCACTGCGCCCT 360
Qy 361 GCCCTCAGAGACCTTCCCGGGGAGTGGCGTGGGTCAGTGGGCTGGGCGTGGGATGTGGAC 420
Db 361 GCCCTCAGAGACCTTCCCGGGGAGTGGCGTGGGTCAGTGGGCTGGGCGTGGGATGTGGAC 420
Qy 421 AATGATGAGCCCTCCACCGCCATTTCTCTGAAGCAGGTGAAGTCCCATTAATGGA 480
Db 421 AATGATGAGCCCTCCACCGCCATTTCTCTGAAGCAGGTGAAGTCCCATTAATGGA 480
Qy 481 AACCAATTGTGACGCAAAATAACCACTTGGCGCTTACAGGGAGAGAGAGTCCGATC 540
Db 481 AACCAATTGTGACGCAAAATAACCACTTGGCGCTTACAGGGAGAGAGAGTCCGATC 540
Qy 541 GTCCGTGACGACATGCTGTGTGGCGGGAAACCCCGGAGAGATGATGCAAGGCGGACCC 600
Db 541 GTCCGTGACGACATGCTGTGTGGCGGGAAACCCCGGAGAGATGATGCAAGGCGGACCC 600
Qy 601 GCGCGAACCCTGTGTGTGTGCAAGGTGATGCACTTGGCTGCAAGCGCGGCTGGTCACTGG 660
Db 601 GCGCGAACCCTGTGTGTGTGCAAGGTGATGCACTTGGCTGCAAGCGCGGCTGGTCACTGG 660
Qy 661 GCGCGAACCCTGTGTGTGTGCAAGGTGATGCACTTGGCTGCAAGCGCGGCTGGTCACTGG 720
Db 661 GCGCGAACCCTGTGTGTGTGCAAGGTGATGCACTTGGCTGCAAGCGCGGCTGGTCACTGG 720
Qy 721 GACTGATCCACCACTATGTCCTCCAAAAAGCCGTGAAGCCGCGCTGCT 771
Db 721 GACTGATCCACCACTATGTCCTCCAAAAAGCCGTGAAGCCGCGCTGCT 771

```

```

Query Match 98.1%; Score 756.6; DB 1; Length 771;
Best Local Similarity 98.8%; Pred. No. 0.042;
Matches 762; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

```

```

RESULT 8
US-09-598-982C-36
; Sequence 36, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffiic, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASIS, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; NUMBER OF SEQ ID NOS: 52

```

```

; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 36
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-36

```

```

Query Match      97.9%; Score 755; DB 1; Length 771;
Best Local Similarity 98.7%; Pred. No. 0.042;
Matches 761; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

```

```

QY 1 GGGCCCTCGAGAAAAGAAATGCTGGGGGCTCAGAGAGCCCGGAGAGCAAGTGGCCCTG 60
DB 1 GGGCCCTCGAGAAAAGAAATGCTGGGGGCTCAGAGAGCCCGGAGAGCAAGTGGCCCTG 60
QY 61 CAGGTGAGCCTGAGAGTCCAGGGCCCAATGCACTTCTGGGGGCTCCCTCATC 120
DB 61 CAGGTGAGCCTGAGAGTCCAGGGCCCAATGCACTTCTGGGGGCTCCCTCATC 120
QY 121 CACCCCGAGTGGGTCTGACCGCAGCGCACTGCGTGGGACCGGAGCTCAAGGATCTGGCC 180
DB 121 CACCCCGAGTGGGTCTGACCGCAGCGCACTGCGTGGGACCGGAGCTCAAGGATCTGGCC 180
QY 181 GCCCTCAGGGGTCAACTGCGGGAGGAGCACTCTACTACAGACCAAGCTGCTCCGGTTC 240
DB 181 GCCCTCAGGGGTCAACTGCGGGAGGAGCACTCTACTACAGACCAAGCTGCTCCGGTTC 240
QY 241 AGCAGGATCATGTGTGACCCCAAGTTCTACACCGCCAGATGGAGCGGACATGCCCCCTG 300
DB 241 AGCAGGATCATGTGTGACCCCAAGTTCTACACCGCCAGATGGAGCGGACATGCCCCCTG 300
QY 301 CTGAGCTGAGAGAGCCGGTGAACGCTCTCAGCCAGCTCAACAGGATCCTCCCTG 360
DB 301 CTGAGCTGAGAGAGCCGGTGAACGCTCTCAGCCAGCTCAACAGGATCCTCCCTG 360
QY 361 GCGTCAGAGACCTTCCCGGGGAGTCCGCTGCTGAGTCACTGGCTGGGGCGATGTGGAC 420
DB 361 GCGTCAGAGACCTTCCCGGGGAGTCCGCTGCTGAGTCACTGGCTGGGGCGATGTGGAC 420
QY 421 AATGATGAGCGCCCTCCACCGGCATTTCTCTGAAAGCAGGTAAAGTCCCATTAATGGA 480
DB 421 AATGATGAGCGCCCTCCACCGGCATTTCTCTGAAAGCAGGTAAAGTCCCATTAATGGA 480
QY 481 AACCACAATTTGTGACGCAAAATATACCACTTGGCGCTTACACGGGAGACGACGTCGCCA 540
DB 481 AACCACAATTTGTGACGCAAAATATACCACTTGGCGCTTACACGGGAGACGACGTCGCCA 540
QY 541 GTCGCTGACGACATGCTGTGTGTCGGGAAACACCCGGAGGAACTCATGTCAAGGCGAC 600
DB 541 GTCGCTGACGACATGCTGTGTGTCGGGAAACACCCGGAGGAACTCATGTCAAGGCGAC 600
QY 601 GGGCGGACCTCTGAGTGTGAAAGTGAATGGACATGCGCTGCAAGGCGGGGCTGAGCTGG 660
DB 601 GGGCGGACCTCTGAGTGTGAAAGTGAATGGACATGCGCTGCAAGGCGGGGCTGAGCTGG 660
QY 661 GGGCGAGGGGTGTGTCAGCGCAACCGGCTGGCATCTACACCGGTGTCACCTACTACTTG 720
DB 661 GGGCGAGGGGTGTGTCAGCGCAACCGGCTGGCATCTACACCGGTGTCACCTACTACTTG 720
QY 721 GACTGGATCCACCACTATGTCCCAAAAAGGCGGTGAAGCGGCGCGCTGT 771
DB 721 GACTGGATCCACCACTATGTCCCAAAAAGGCGGTGAAGCGGCGCGCTGT 771

```

```

RESULT 9
US-09-598-982C-20
; Sequence 20, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Mafilit, Mark

```

```

; APPLICANT: Haak-Frendach, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSINS, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; PRIOR FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 20
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-20

```

```

Query Match      97.7%; Score 753.4; DB 1; Length 771;
Best Local Similarity 98.6%; Pred. No. 0.043;
Matches 760; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

```

```

QY 1 GGGCCCTCGAGAAAAGAAATGCTGGGGGCTCAGAGAGCCCGGAGAGCAAGTGGCCCTG 60
DB 1 GGGCCCTCGAGAAAAGAAATGCTGGGGGCTCAGAGAGCCCGGAGAGCAAGTGGCCCTG 60
QY 61 CAGGTGAGCCTGAGAGTCCAGGGCCCAATGCACTTCTGGGGGCTCCCTCATC 120
DB 61 CAGGTGAGCCTGAGAGTCCAGGGCCCAATGCACTTCTGGGGGCTCCCTCATC 120
QY 121 CACCCCGAGTGGGTCTGACCGCAGCGCACTGCGTGGGACCGGAGCTCAAGGATCTGGCC 180
DB 121 CACCCCGAGTGGGTCTGACCGCAGCGCACTGCGTGGGACCGGAGCTCAAGGATCTGGCC 180
QY 181 GCCCTCAGGGGTCAACTGCGGGAGGAGCACTCTACTACAGACCAAGCTGCTCCGGTTC 240
DB 181 GCCCTCAGGGGTCAACTGCGGGAGGAGCACTCTACTACAGACCAAGCTGCTCCGGTTC 240
QY 241 AGCAGGATCATGTGTGACCCCAAGTTCTACACCGCCAGATGGAGCGGACATGCCCCCTG 300
DB 241 AGCAGGATCATGTGTGACCCCAAGTTCTACACCGCCAGATGGAGCGGACATGCCCCCTG 300
QY 301 CTGAGCTGAGAGAGCCGGTGAACGCTCTCAGCCAGCTCAACAGGATCCTCCCTG 360
DB 301 CTGAGCTGAGAGAGCCGGTGAACGCTCTCAGCCAGCTCAACAGGATCCTCCCTG 360
QY 361 GCGTCAGAGACCTTCCCGGGGAGTCCGCTGCTGAGTCACTGGCTGGGGCGATGTGGAC 420
DB 361 GCGTCAGAGACCTTCCCGGGGAGTCCGCTGCTGAGTCACTGGCTGGGGCGATGTGGAC 420
QY 421 AATGATGAGCGCCCTCCACCGGCATTTCTCTGAAAGCAGGTAAAGTCCCATTAATGGA 480
DB 421 AATGATGAGCGCCCTCCACCGGCATTTCTCTGAAAGCAGGTAAAGTCCCATTAATGGA 480
QY 481 AACCACAATTTGTGACGCAAAATATACCACTTGGCGCTTACACGGGAGACGACGTCGCCA 540
DB 481 AACCACAATTTGTGACGCAAAATATACCACTTGGCGCTTACACGGGAGACGACGTCGCCA 540
QY 541 GTCGCTGACGACATGCTGTGTGTCGGGAAACACCCGGAGGAACTCATGTCAAGGCGAC 600
DB 541 GTCGCTGACGACATGCTGTGTGTCGGGAAACACCCGGAGGAACTCATGTCAAGGCGAC 600
QY 601 GGGCGGACCTCTGAGTGTGAAAGTGAATGGACATGCGCTGCAAGGCGGGGCTGAGCTGG 660
DB 601 GGGCGGACCTCTGAGTGTGAAAGTGAATGGACATGCGCTGCAAGGCGGGGCTGAGCTGG 660
QY 661 GGGCGAGGGGTGTGTCAGCGCAACCGGCTGGCATCTACACCGGTGTCACCTACTACTTG 720
DB 661 GGGCGAGGGGTGTGTCAGCGCAACCGGCTGGCATCTACACCGGTGTCACCTACTACTTG 720
QY 721 GACTGGATCCACCACTATGTCCCAAAAAGGCGGTGAAGCGGCGCGCTGT 771
DB 721 GACTGGATCCACCACTATGTCCCAAAAAGGCGGTGAAGCGGCGCGCTGT 771

```



US-09-598-982C-20

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

OY 1 GGGCCCTCGAGAAAAGAAATGTCGGGGGTGAGAGGCCCCCAGAGCAAGTGGCCCTGG 60
DB 113 GAGCCCCCGCAGAAAGTGCATCCAGTATGGGCGCGTGCAGCTCCAGGCTCAGCCGCGCCAGGG 54
OY 61 CAGGTGAGCCTGAGAGTCCAGGCCCCATATCTGATGCACTTCTGGGGGGCTTC 113
DB 53 CACTTGTCTCTGGGGGCTCCTCGAACCCCGCAGCAATTTCTTCTCGAGGGGGCC 1

RESULT 13

US-09-598-982C-22/c
Sequence 22, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506.104
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079,970
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 22
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (7)..(753)
US-09-598-982C-22

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;
OY 1 GGGCCCTCGAGAAAAGAAATGTCGGGGGTGAGAGGCCCCCAGAGCAAGTGGCCCTGG 60
DB 113 GAGCCCCCGCAGAAAGTGCATCCAGTATGGGCGCGTGCAGCTCCAGGCTCAGCCGCGCCAGGG 54
OY 61 CAGGTGAGCCTGAGAGTCCAGGCCCCATATCTGATGCACTTCTGGGGGGCTTC 113
DB 53 CACTTGTCTCTGGGGGCTCCTCGAACCCCGCAGCAATTTCTTCTCGAGGGGGCC 1

RESULT 14
US-09-598-982C-24/c
Sequence 24, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506.104
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079,970
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 24
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens

US-09-598-982C-24/c
Sequence 24, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506.104
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079,970
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 24
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens

FEATURE:
NAME/KEY: CDS
LOCATION: (7)..(753)
US-09-598-982C-24

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;
OY 1 GGGCCCTCGAGAAAAGAAATGTCGGGGGTGAGAGGCCCCCAGAGCAAGTGGCCCTGG 60
DB 113 GAGCCCCCGCAGAAAGTGCATCCAGTATGGGCGCGTGCAGCTCCAGGCTCAGCCGCGCCAGGG 54
OY 61 CAGGTGAGCCTGAGAGTCCAGGCCCCATATCTGATGCACTTCTGGGGGGCTTC 113
DB 53 CACTTGTCTCTGGGGGCTCCTCGAACCCCGCAGCAATTTCTTCTCGAGGGGGCC 1

RESULT 15

US-09-598-982C-26/c
Sequence 26, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506.104
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079,970
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 26
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (7)..(753)
US-09-598-982C-26

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;
OY 1 GGGCCCTCGAGAAAAGAAATGTCGGGGGTGAGAGGCCCCCAGAGCAAGTGGCCCTGG 60
DB 113 GAGCCCCCGCAGAAAGTGCATCCAGTATGGGCGCGTGCAGCTCCAGGCTCAGCCGCGCCAGGG 54
OY 61 CAGGTGAGCCTGAGAGTCCAGGCCCCATATCTGATGCACTTCTGGGGGGCTTC 113
DB 53 CACTTGTCTCTGGGGGCTCCTCGAACCCCGCAGCAATTTCTTCTCGAGGGGGCC 1

RESULT 16

US-09-598-982C-36/c
Sequence 36, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506.104
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079,970
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 36

```

; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
US-09-598-982C-36

```

Query Match 3.7%; Score 28.2; DB 1; Length 771;

Best Local Similarity 53.1%; Pred. No. 17; Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

```

QY 1 GGGCCCTCGAGAAAAGATGTCGGGGGTCAGAGAGGCCCCGAGAGCAAGTGGCCCTGG 60
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 113 GAGCCCCCGGAGAAAGTGCATCCAGTATGGGCCCTGCAAGCTCCACCTGCCAGAGGC 54
QY 61 CAGGTGAGCCTGAGAGTCCACGCGCCCAATGATGCACTTCTGCGGGGGCTC 113
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 53 CACTTGCTCCTGGGGGCTCCTGACCCCGAGAGATTTCTTTCTCGAGGGGGCCC 1

```

RESULT 17  
US-09-598-982C-38/c

```

; Sequence 38, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSAS, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; PRIOR FILING DATE: 2000-06-21
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 38
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
US-09-598-982C-38

```

Query Match 3.7%; Score 28.2; DB 1; Length 771;

Best Local Similarity 53.1%; Pred. No. 17; Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

```

QY 1 GGGCCCTCGAGAAAAGATGTCGGGGGTCAGAGAGGCCCCGAGAGCAAGTGGCCCTGG 60
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 113 GAGCCCCCGGAGAAAGTGCATCCAGTATGGGCCCTGCAAGCTCCACCTGCCAGAGGC 54
QY 61 CAGGTGAGCCTGAGAGTCCACGCGCCCAATGATGCACTTCTGCGGGGGCTC 113
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 53 CACTTGCTCCTGGGGGCTCCTGACCCCGAGAGATTTCTTTCTCGAGGGGGCCC 1

```

RESULT 18  
US-09-598-982C-40/c

```

; Sequence 40, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSAS, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; PRIOR FILING DATE: 2000-06-21
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 40
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
US-09-598-982C-40

```

```

; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 40
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
US-09-598-982C-40

```

Query Match 3.7%; Score 28.2; DB 1; Length 771;

Best Local Similarity 53.1%; Pred. No. 17; Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

```

QY 1 GGGCCCTCGAGAAAAGATGTCGGGGGTCAGAGAGGCCCCGAGAGCAAGTGGCCCTGG 60
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 113 GAGCCCCCGGAGAAAGTGCATCCAGTATGGGCCCTGCAAGCTCCACCTGCCAGAGGC 54
QY 61 CAGGTGAGCCTGAGAGTCCACGCGCCCAATGATGCACTTCTGCGGGGGCTC 113
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 53 CACTTGCTCCTGGGGGCTCCTGACCCCGAGAGATTTCTTTCTCGAGGGGGCCC 1

```

RESULT 19  
US-09-598-982C-42/c

```

; Sequence 42, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSAS, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; PRIOR FILING DATE: 2000-06-21
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 42
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
US-09-598-982C-42

```

Query Match 3.7%; Score 28.2; DB 1; Length 771;

Best Local Similarity 53.1%; Pred. No. 17; Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

```

QY 1 GGGCCCTCGAGAAAAGATGTCGGGGGTCAGAGAGGCCCCGAGAGCAAGTGGCCCTGG 60
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 113 GAGCCCCCGGAGAAAGTGCATCCAGTATGGGCCCTGCAAGCTCCACCTGCCAGAGGC 54
QY 61 CAGGTGAGCCTGAGAGTCCACGCGCCCAATGATGCACTTCTGCGGGGGCTC 113
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 53 CACTTGCTCCTGGGGGCTCCTGACCCCGAGAGATTTCTTTCTCGAGGGGGCCC 1

```

RESULT 20  
US-09-598-982C-10/c

```

; Sequence 10, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSAS, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C

```

/ CURRENT FILING DATE: 2000-06-21  
 / PRIORITY APPLICATION NUMBER: 09/079,970  
 / PRIOR FILING DATE: 1998-04-15  
 / NUMBER OF SEQ ID NOS: 52  
 / SOFTWARE: PatentIn version 3.3  
 / SEQ ID NO: 10  
 / LENGTH: 735  
 / TYPE: DNA  
 / ORGANISM: Homo sapiens  
 / FEATURE:  
 / NAME/KEY: CDS  
 / LOCATION: (1)..(735)  
 US-09-598-982C-10

Query Match 3.3%; Score 25.6; DB 1; Length 735;  
 Best Local Similarity 52.4%; Pred. No. 18;  
 Matches 99; Conservative 0; Mismatches 84; Indels 6; Gaps 2;

QY 286 GGGGACATGCGCTGTGTGAGGTGAGGAGCCGGTGAACGTCTCCAGCCAGTCCACG 345  
 Db 453 GGGGACCTTCCAGCTGCTCAGAGAAATGCGGTGGAGGCGCTCATCATGTGCCA-- 396  
 QY 346 GTACACCTGCGCCCTCCAGAGACCTTCCCGGGGATGCGGTGCTGCACTGCGC 405  
 Db 395 -TGGCCCAAGTATGAGCCAGGACCGGCAATCCCGGGGAAAGTCTCTGAGGCGAGGGG 337  
 QY 406 TGGGGGCA--TGTGACATGATGAGCGCTCCACCGCCATTTCTCTGAAGCAGGTG 462  
 Db 336 CAGGTGACCGGTGTGAGCTGTGAGACCTTCCACCGGCTCTCCAGTCCAGGAGGCGC 277  
 QY 463 AAGGTCCCGC 471  
 Db 276 GATGTCCCGC 268

Search completed: August 26, 2005, 12:32:36  
 Job time : 4.81314 secs

GenCore version 5.1.6  
 Copyright (c) 1993 - 2005 CompuGen Ltd.

OM nucleic - nucleic search, using sw model  
 Run on: August 26, 2005, 12:31:55 | Search time 2.81314 Seconds  
 (without alignments)  
 4.206 Million cell updates/sec

Title: US-09-598-982C-42  
 Perfect score: 771  
 Sequence: 1 999ccccccgagaagaat.....cgtgaaagcggccgctcgt 771

Scoring table: IDENTITY\_NUC  
 Gapop 10.0, Gapext 0.5

Searched: 10 seqs, 7674 residues  
 Total number of hits satisfying chosen parameters: 20

Minimum DB seq length: 0  
 Maximum DB seq length: inf  
 Post-Processing: Minimum Match 0%  
 Maximum Match 100%  
 Listing first 200 summaries

Database : US09598982C\_rev.seq:\*

Pred. No. is the number of results predicted by chance to have a  
 score greater than or equal to the score of the result being printed,  
 and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	771	100.0	771	1	US-09-598-982C-42 Sequence 42, Appl
2	769.4	99.8	771	1	US-09-598-982C-26 Sequence 26, Appl
3	766.2	99.4	771	1	US-09-598-982C-40 Sequence 40, Appl
4	764.6	99.2	771	1	US-09-598-982C-24 Sequence 24, Appl
5	759.8	98.5	771	1	US-09-598-982C-8 Sequence 8, Appl
6	758.2	98.3	771	1	US-09-598-982C-38 Sequence 38, Appl
7	756.6	98.1	771	1	US-09-598-982C-22 Sequence 22, Appl
8	755	97.9	771	1	US-09-598-982C-36 Sequence 36, Appl
9	753.4	97.7	771	1	US-09-598-982C-20 Sequence 20, Appl
10	723.8	93.9	735	1	US-09-598-982C-10 Sequence 10, Appl
C 11	28.2	3.7	771	1	US-09-598-982C-8 Sequence 8, Appl
C 12	28.2	3.7	771	1	US-09-598-982C-20 Sequence 20, Appl
C 13	28.2	3.7	771	1	US-09-598-982C-22 Sequence 22, Appl
C 14	28.2	3.7	771	1	US-09-598-982C-24 Sequence 24, Appl
C 15	28.2	3.7	771	1	US-09-598-982C-26 Sequence 26, Appl
C 16	28.2	3.7	771	1	US-09-598-982C-36 Sequence 36, Appl
C 17	28.2	3.7	771	1	US-09-598-982C-38 Sequence 38, Appl
C 18	28.2	3.7	771	1	US-09-598-982C-40 Sequence 40, Appl
C 19	28.2	3.7	771	1	US-09-598-982C-42 Sequence 42, Appl
C 20	25.6	3.3	735	1	US-09-598-982C-10 Sequence 10, Appl

ALIGNMENTS

RESULT 1  
 US-09-598-982C-42  
 / Sequence 42, Application US/09598982C  
 / GENERAL INFORMATION:  
 / APPLICANT: Miles, Andrew  
 / APPLICANT: Haak-Frendel, Mark  
 / APPLICANT: Haak-Frendel, Mark  
 / TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSINASES, ACTIVE SITE MUTANTS THEREOF,  
 / TITLE OF INVENTION: AND METHODS OF MAKING SAME  
 / FILE REFERENCE: 34506.104  
 / CURRENT APPLICATION NUMBER: US/09/598,982C  
 / CURRENT FILING DATE: 2000-06-21  
 / PRIORITY APPLICATION NUMBER: 09/079,970  
 / PRIORITY APPLICATION NUMBER: 09/079,970  
 / PRIORITY APPLICATION NUMBER: 09/079,970  
 / NUMBER OF SEQ ID NOS: 52  
 / SOFTWARE: PatentIn version 3.3  
 / SEQ ID NO: 42  
 / LENGTH: 771  
 / TYPE: DNA  
 / ORGANISM: Homo sapiens  
 / FEATURE:  
 / NAME/KEY: CDS  
 / LOCATION: (7)..(753)  
 US-09-598-982C-42

Query Match 100.0%; Score 771; DB 1; Length 771;  
 Best Local Similarity 100.0%; Pred. No. 0.037;  
 Matches 771; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	GGGCCCCCTCGAGAAAAGATGTTGGGGGTGACAGAGGCCCCCAGAGGAAAGTGGCCCTGG 60
Db	1	GGGCCCCCTCGAABAAAAGATGTTGGGGGTGACAGAGGCCCCCAGAGGAAAGTGGCCCTGG 60
QY	61	CAGGTGAGCGCTGAGAGTCCAGCCCGCCATATGATGCACTTCTGCGGGGGCTCCCTCATC 120
Db	61	CAGGTGAGCGCTGAGAGTCCAGCGCCCGCCATATGATGCACTTCTGCGGGGGCTCCCTCATC 120
QY	121	CACCCCAAGTGGGTCTGACCGGACGGCACTGCGTGGGACCGGACGTCAGAGATCTGGGC 180
Db	121	CACCCCAAGTGGGTCTGACCGGACGGCACTGCGTGGGACCGGACGTCAGAGATCTGGGC 180
QY	181	GCCCTCAGAGGTGCACTGCGGGAGAGACCTCTACTACCAAGACCAAGTGTGGCCGATC 240
Db	181	GCCCTCAGAGGTGCACTGCGGGAGAGACCTCTACTACCAAGACCAAGTGTGGCCGATC 240



QY 241 AGCAGGATCATCTGTGCAACCCAGATTCTAACAAGCCGATCGGAGGAGCATGCGCCCTG 300  
 DB 241 AGCAGGATCATCTGTGCAACCCAGATTCTAACAAGCCGATCGGAGGAGCATGCGCCCTG 300  
 QY 301 CTGGAGCTGAGAGAGCCGGTGAACGTCTCCAGCCAGCTCAACAAGCTCAACCTGCCCCCT 360  
 DB 301 CTGGAGCTGAGAGAGCCGGTGAACGTCTCCAGCCAGCTCAACAAGCTCAACCTGCCCCCT 360  
 QY 361 GCGTCAAGAGACTTCCCGCCGGGATGCGGCTGCTGGTCACTGGCTGGGGGATGTGGAC 420  
 DB 361 GCGTCAAGAGACTTCCCGCCGGGATGCGGCTGCTGGTCACTGGCTGGGGGATGTGGAC 420  
 QY 421 AATGATGAGGCGCTCCCAACCGCATTTCTGTGAAGGAGGTAAGGATCCCATTAATGGA 480  
 DB 421 AATGATGAGGCGCTCCCAACCGCATTTCTGTGAAGGAGGTAAGGATCCCATTAATGGA 480  
 QY 481 AACCAATTTGTGACGGCAAAATTAACAACCTTGGCGCTTACAAGGAGACGAGCTCCGCAATC 540  
 DB 481 AACCAATTTGTGACGGCAAAATTAACAACCTTGGCGCTTACAAGGAGACGAGCTCCGCAATC 540  
 QY 541 GTCCTGACGACATGCTGTGTGTGCGGGAAACCCGGAGGACTCATATGCAAGAGAGCGCC 600  
 DB 541 GTCCTGACGACATGCTGTGTGTGCGGGAAACCCGGAGGACTCATATGCAAGAGAGCGCC 600  
 QY 601 GCGGACCACTGTGTGTGCAAGGTAATGGCACTGGCTGCAAGGGCGGGGTGTGAGCTGG 660  
 DB 601 GCGGACCACTGTGTGTGCAAGGTAATGGCACTGGCTGCAAGGGCGGGGTGTGAGCTGG 660  
 QY 661 GCGGAGGCTGTGTGCGCCAGCCCAACCGGCTGGCAATCTAACCCTGTCACTACTACTTG 720  
 DB 661 GCGGAGGCTGTGTGCGCCAGCCCAACCGGCTGGCAATCTAACCCTGTCACTACTACTTG 720  
 QY 721 GACTGATCCACCACTATGTGTCCCAAAAAGCCGTGAAGCGGCGCCGTCTGT 771  
 DB 721 GACTGATCCACCACTATGTGTCCCAAAAAGCCGTGAAGCGGCGCCGTCTGT 771

RESULT 2  
 US-09-598-982C-26  
 ; Sequence 26, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffett, Mark  
 ; APPLICANT: Haak-Frendesch, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 26  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 US-09-598-982C-26  
 Query Match 99.8%; Score 769.4; DB 1; Length 771;  
 Best Local Similarity 99.9%; Pred. No. 0.037;  
 Matches 770; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

DB 61 CAGGTGAGCCTGAGAGTCCACAGCCCATTAATGATGACATTTCTGCGGGGGCTCCCTCATC 120  
 QY 121 CACCCGAGTGGGGTGAACCGAGGCACTGGGTGGGAAACCGAGCTCAAGGATCTGACC 180  
 DB 121 CACCCGAGTGGGGTGAACCGAGGCACTGGGTGGGAAACCGAGCTCAAGGATCTGACC 180  
 QY 181 GCGCTCAGGGTGAACCTGCGGAGCAGCACTTACTACTACAGAGCAGACTGCTCCGGTTC 240  
 DB 181 GCGCTCAGGGTGAACCTGCGGAGCAGCACTTACTACTACAGAGCAGACTGCTCCGGTTC 240  
 QY 241 AGCAGGATCATCTGTGCAACCCAGATTCTAACAAGCCGATCGGAGGAGCATGCGCCCTG 300  
 DB 241 AGCAGGATCATCTGTGCAACCCAGATTCTAACAAGCCGATCGGAGGAGCATGCGCCCTG 300  
 QY 301 CTGGAGCTGAGAGAGCCGGTGAACGTCTCCAGCCAGCTCAACAAGCTCAACCTGCCCCCT 360  
 DB 301 CTGGAGCTGAGAGAGCCGGTGAACGTCTCCAGCCAGCTCAACAAGCTCAACCTGCCCCCT 360  
 QY 361 GCGTCAAGAGACTTCCCGCCGGGATGCGGCTGCTGGTCACTGGCTGGGGGATGTGGAC 420  
 DB 361 GCGTCAAGAGACTTCCCGCCGGGATGCGGCTGCTGGTCACTGGCTGGGGGATGTGGAC 420  
 QY 421 AATGATGAGGCGCTCCCAACCGCATTTCTGTGAAGGAGGTAAGGATCCCATTAATGGA 480  
 DB 421 AATGATGAGGCGCTCCCAACCGCATTTCTGTGAAGGAGGTAAGGATCCCATTAATGGA 480  
 QY 481 AACCAATTTGTGACGGCAAAATTAACAACCTTGGCGCTTACAAGGAGACGAGCTCCGCAATC 540  
 DB 481 AACCAATTTGTGACGGCAAAATTAACAACCTTGGCGCTTACAAGGAGACGAGCTCCGCAATC 540  
 QY 541 GTCCTGACGACATGCTGTGTGTGCGGGAAACCCGGAGGACTCATATGCAAGAGAGCGCC 600  
 DB 541 GTCCTGACGACATGCTGTGTGTGCGGGAAACCCGGAGGACTCATATGCAAGAGAGCGCC 600  
 QY 601 GCGGACCACTGTGTGTGCAAGGTAATGGCACTGGCTGCAAGGGCGGGGTGTGAGCTGG 660  
 DB 601 GCGGACCACTGTGTGTGCAAGGTAATGGCACTGGCTGCAAGGGCGGGGTGTGAGCTGG 660  
 QY 661 GCGGAGGCTGTGTGCGCCAGCCCAACCGGCTGGCAATCTAACCCTGTCACTACTACTTG 720  
 DB 661 GCGGAGGCTGTGTGCGCCAGCCCAACCGGCTGGCAATCTAACCCTGTCACTACTACTTG 720  
 QY 721 GACTGATCCACCACTATGTGTCCCAAAAAGCCGTGAAGCGGCGCCGTCTGT 771  
 DB 721 GACTGATCCACCACTATGTGTCCCAAAAAGCCGTGAAGCGGCGCCGTCTGT 771

RESULT 3  
 US-09-598-982C-40  
 ; Sequence 40, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffett, Mark  
 ; APPLICANT: Haak-Frendesch, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 40  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 US-09-598-982C-40  
 Query Match 99.4%; Score 766.2; DB 1; Length 771;

Best Local Similarity 99.6%; Pred. No. 0.038; Matches 768; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

1 GGGCCCTCGAGAAAAGATCGTGGGGGTGAGAGGCCCCCGAGAGCAATGGCCCTGG 60
1 GGGCCCTCGAGAAAAGATCGTGGGGGTGAGAGGCCCCCGAGAGCAATGGCCCTGG 60
61 CAGGTGAGCCTGAGAGTCCAGCGCCGATCTGAGATGCACTTCTGGGGGGCTCCCTCATC 120
61 CAGGTGAGCCTGAGAGTCCAGCGCCGATCTGAGATGCACTTCTGGGGGGCTCCCTCATC 120
121 CACCCCAAGTGGGTGTGACCGCAGCGCACTGCGTGGGACCGGACGTCAGGATCTGGCC 180
121 CACCCCAAGTGGGTGTGACCGCAGCGCACTGCGTGGGACCGGACGTCAGGATCTGGCC 180
181 GCCCTCAGGGTGCACCTGGGGAGAGCACTCTCTACACAGAACCAAGCTGTCCCGGTG 240
181 GCCCTCAGGGTGCACCTGGGGAGAGCACTCTCTACACAGAACCAAGCTGTCCCGGTG 240
241 AGCAGATCATGTGTGACCCAGTTCTACACCGCCAGATGAGAGCGGACATCCGCTTG 300
241 AGCAGATCATGTGTGACCCAGTTCTACACCGCCAGATGAGAGCGGACATCCGCTTG 300
301 CTGAGGCTGAGAGGAGCCGGTGAACGCTCAGCCAGTCCAGCCAGTCCGCTTG 360
301 CTGAGGCTGAGAGGAGCCGGTGAACGCTCAGCCAGTCCAGCCAGTCCGCTTG 360
361 GCCCTCAGGGTGCACCTGGGGAGAGCACTCTCTACACAGAACCAAGCTGTCCCGGTG 420
361 GCCCTCAGGGTGCACCTGGGGAGAGCACTCTCTACACAGAACCAAGCTGTCCCGGTG 420
421 AATGATGAGCGCTCCCAACCGCATTTCTGTAAGCAGTGAAGGCTCCCAATATGAA 480
421 AATGATGAGCGCTCCCAACCGCATTTCTGTAAGCAGTGAAGGCTCCCAATATGAA 480
481 AACCAATTTGTGAGCGAAAATACCACTTGGGGCTTACAGGGAGAGAGAGTCCGCAATC 540
481 AACCAATTTGTGAGCGAAAATACCACTTGGGGCTTACAGGGAGAGAGAGTCCGCAATC 540
541 GTCCGTGACGACATGCTGTGTGTCGGGGAAACACCCGGAGGACTCATGCGCAAGAGACGC 600
541 GTCCGTGACGACATGCTGTGTGTCGGGGAAACACCCGGAGGACTCATGCGCAAGAGACGC 600
601 GGGGAGCACTGTGTGTGCAAGGTGAATGGCACTTGGCTGCAAGCGGGCGTGTCAAGCTGG 660
601 GGGGAGCACTGTGTGTGCAAGGTGAATGGCACTTGGCTGCAAGCGGGCGTGTCAAGCTGG 660
661 GGGGAGGGGTGTGCGCCAGCGCAACCGGCTGGCATCTACACCGTGTCACTACTACTTG 720
661 GGGGAGGGGTGTGCGCCAGCGCAACCGGCTGGCATCTACACCGTGTCACTACTACTTG 720
721 GACTGATTCACCACTATGTCCCAAAAAGCCGTGAAGCGCGCCGCTGT 771
721 GACTGATTCACCACTATGTCCCAAAAAGCCGTGAAGCGCGCCGCTGT 771

RESULT 4
US-09-598-982C-24
Sequence 24, Application US/09598982C
GENERAL INFORMATION:

APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF.

FILE REFERENCE: 34506.104
CURRENT APPLICATION NUMBER: US/09/598,982C
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079,970
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 24

LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (7)..(753)
US-09-598-982C-24

Query Match 99.2%; Score 764.6; DB 1; Length 771;
Best Local Similarity 99.5%; Pred. No. 0.039;
Matches 767; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

1 GGGCCCTCGAGAAAAGATCGTGGGGGTGAGAGGCCCCCGAGAGCAATGGCCCTGG 60
1 GGGCCCTCGAGAAAAGATCGTGGGGGTGAGAGGCCCCCGAGAGCAATGGCCCTGG 60
61 CAGGTGAGCCTGAGAGTCCAGCGCCGATCTGAGATGCACTTCTGGGGGGCTCCCTCATC 120
61 CAGGTGAGCCTGAGAGTCCAGCGCCGATCTGAGATGCACTTCTGGGGGGCTCCCTCATC 120
121 CACCCCAAGTGGGTGTGACCGCAGCGCACTGCGTGGGACCGGACGTCAGGATCTGGCC 180
121 CACCCCAAGTGGGTGTGACCGCAGCGCACTGCGTGGGACCGGACGTCAGGATCTGGCC 180
181 GCCCTCAGGGTGCACCTGGGGAGAGCACTCTCTACACAGAACCAAGCTGTCCCGGTG 240
181 GCCCTCAGGGTGCACCTGGGGAGAGCACTCTCTACACAGAACCAAGCTGTCCCGGTG 240
241 AGCAGATCATGTGTGACCCAGTTCTACACCGCCAGATGAGAGCGGACATCCGCTTG 300
241 AGCAGATCATGTGTGACCCAGTTCTACACCGCCAGATGAGAGCGGACATCCGCTTG 300
301 CTGAGGCTGAGAGGAGCCGGTGAACGCTCAGCCAGTCCAGCCAGTCCGCTTG 360
301 CTGAGGCTGAGAGGAGCCGGTGAACGCTCAGCCAGTCCAGCCAGTCCGCTTG 360
361 GCCCTCAGGGTGCACCTGGGGAGAGCACTCTCTACACAGAACCAAGCTGTCCCGGTG 420
361 GCCCTCAGGGTGCACCTGGGGAGAGCACTCTCTACACAGAACCAAGCTGTCCCGGTG 420
421 AATGATGAGCGCTCCCAACCGCATTTCTGTAAGCAGTGAAGGCTCCCAATATGAA 480
421 AATGATGAGCGCTCCCAACCGCATTTCTGTAAGCAGTGAAGGCTCCCAATATGAA 480
481 AACCAATTTGTGAGCGAAAATACCACTTGGGGCTTACAGGGAGAGAGAGTCCGCAATC 540
481 AACCAATTTGTGAGCGAAAATACCACTTGGGGCTTACAGGGAGAGAGAGTCCGCAATC 540
541 GTCCGTGACGACATGCTGTGTGTCGGGGAAACACCCGGAGGACTCATGCGCAAGAGACGC 600
541 GTCCGTGACGACATGCTGTGTGTCGGGGAAACACCCGGAGGACTCATGCGCAAGAGACGC 600
601 GGGGAGCACTGTGTGTGCAAGGTGAATGGCACTTGGCTGCAAGCGGGCGTGTCAAGCTGG 660
601 GGGGAGCACTGTGTGTGCAAGGTGAATGGCACTTGGCTGCAAGCGGGCGTGTCAAGCTGG 660
661 GGGGAGGGGTGTGCGCCAGCGCAACCGGCTGGCATCTACACCGTGTCACTACTACTTG 720
661 GGGGAGGGGTGTGCGCCAGCGCAACCGGCTGGCATCTACACCGTGTCACTACTACTTG 720
721 GACTGATTCACCACTATGTCCCAAAAAGCCGTGAAGCGCGCCGCTGT 771
721 GACTGATTCACCACTATGTCCCAAAAAGCCGTGAAGCGCGCCGCTGT 771

RESULT 5
US-09-598-982C-8
Sequence 8, Application US/09598982C
GENERAL INFORMATION:

APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF.

```

: TITLE OF INVENTION: AND METHODS OF MAKING SAME
: FILE REFERENCE: 34506.104
: CURRENT APPLICATION NUMBER: US/09/598,982C
: PRIORITY FILING DATE: 2000-06-21
: PRIOR APPLICATION NUMBER: 09/079,970
: PRIORITY FILING DATE: 1998-04-15
: NUMBER OF SEQ ID NOS: 52
: SOFTWARE: PatentIn version 3.3
: SEQ ID NO 8
: LENGTH: 771
: TYPE: DNA
: ORGANISM: Homo sapiens
: FEATURE:
: NAME/KEY: CDS
: LOCATION: (7)..(753)
US-09-598-982C-8

```

Query Match 98.5%; Score 759.8; DB 1; Length 771;

Best Local Similarity 99.1%; Pred. No. 0.041; Mismatches 7; Indels 0; Gaps 0;

```

Matches 764; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
QY 1 GGGCCCTCGAGAAAAGAAATGTTGGGGGTCAAGAGGCCCCCAGAGCAAGTGGCCCTGG 60
D 1 GGGCCCTCGAGAAAAGAAATGTTGGGGGTCAAGAGGCCCCCAGAGCAAGTGGCCCTGG 60
QY 61 CAGGTGAGCTGAGAGTCCAGGCCCATACTGATGCACTTCTGGGGGGGCTCCCTCATC 120
D 61 CAGGTGAGCTGAGAGTCCAGGCCCATACTGATGCACTTCTGGGGGGGCTCCCTCATC 120
QY 121 CACCCCGAGTGGTGTGACCGGACCGCACTGCGTGGAGCCGACGTCAGAGATCTGGCC 180
D 121 CACCCCGAGTGGTGTGACCGGACCGCACTGCGTGGAGCCGACGTCAGAGATCTGGCC 180
QY 181 GCCCTCAGGGTGCACCTGCGGGAGAGCACTCTACTGACAGACCAAGCTGCGGTC 240
D 181 GCCCTCAGGGTGCACCTGCGGGAGAGCACTCTACTGACAGACCAAGCTGCGGTC 240
QY 241 AGCAGGATCATGTGACCCCAAGTCTACACCCCGGAGTCGAGCGGAGATGSCCTG 300
D 241 AGCAGGATCATGTGACCCCAAGTCTACACCCCGGAGTCGAGCGGAGATGSCCTG 300
QY 301 CTGGAGCTGAGAGAGCCGGTGAACGTCCTCAGCCACGTCACACCGTCCCTGCCCCCT 360
D 301 CTGGAGCTGAGAGAGCCGGTGAACGTCCTCAGCCACGTCACACCGTCCCTGCCCCCT 360
QY 361 GCCTCAGAGACCTTCCCGCGGGAGATGCGTGTGCTGCTGCTGCTGCTGCTGCTGCTG 420
D 361 GCCTCAGAGACCTTCCCGCGGGAGATGCGTGTGCTGCTGCTGCTGCTGCTGCTG 420
QY 421 AATGATGAGGGCCCTCCCAACCGGCACTTCTGTAAGGAGGTGAAGATCCCATATGGA 480
D 421 AATGATGAGGGCCCTCCCAACCGGCACTTCTGTAAGGAGGTGAAGATCCCATATGGA 480
QY 481 AACCACAATTTGTGACGCAAAATAACCACTTGGCCGCTACAGGGAGAGAGTCCGCAATC 540
D 481 AACCACAATTTGTGACGCAAAATAACCACTTGGCCGCTACAGGGAGAGAGTCCGCAATC 540
QY 541 GTCCGTGACGACATGCTGTGTGCGGGGAAACCCCGAGAGACTCATGCGACAGCC 600
D 541 GTCCGTGACGACATGCTGTGTGCGGGGAAACCCCGAGAGACTCATGCGACAGCC 600
QY 601 GGGGAGCCACATGCTGTGTGCAAGTGAATGGCACTGGGCTGAGGGGGGAGTGTGAG 660
D 601 GGGGAGCCACATGCTGTGTGCAAGTGAATGGCACTGGGCTGAGGGGGGAGTGTGAG 660
QY 661 GGGGAGGGCTGTGCGCAGCCCAACCGGCTGTGACCTGACCCCGTGTGACCTACTG 720
D 661 GGGGAGGGCTGTGCGCAGCCCAACCGGCTGTGACCTGACCCCGTGTGACCTACTG 720
QY 721 GACTGGATCCACACTATGTCCCAAAAAGCCGTGAGAGCCGCGCTGCTG 771
D 721 GACTGGATCCACACTATGTCCCAAAAAGCCGTGAGAGCCGCGCTGCTG 771

```

RESULT 6

```

US-09-598-982C-38
: Sequence 38, Application US/09598982C
: GENERAL INFORMATION:
: APPLICANT: Niles, Andrew
: APPLICANT: Maffei, Mark
: APPLICANT: Haak-Frendschio, Mary
: TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSINS, ACTIVE SITE MUTANTS THEREOF.
: TITLE OF INVENTION: AND METHODS OF MAKING SAME
: FILE REFERENCE: 34506.104
: CURRENT APPLICATION NUMBER: US/09/598,982C
: PRIORITY FILING DATE: 2000-06-21
: PRIOR APPLICATION NUMBER: 09/079,970
: NUMBER OF SEQ ID NOS: 52
: SOFTWARE: PatentIn version 3.3
: SEQ ID NO 38
: LENGTH: 771
: TYPE: DNA
: ORGANISM: Homo sapiens
: FEATURE:
: NAME/KEY: CDS
: LOCATION: (7)..(753)
US-09-598-982C-38

```

Query Match 98.3%; Score 758.2; DB 1; Length 771;

Best Local Similarity 99.0%; Pred. No. 0.041; Mismatches 8; Indels 0; Gaps 0;

```

Matches 763; Conservative 0; Mismatches 8; Indels 0; Gaps 0;
QY 1 GGGCCCTCGAGAAAAGAAATGTTGGGGGTCAAGAGGCCCCCAGAGCAAGTGGCCCTGG 60
D 1 GGGCCCTCGAGAAAAGAAATGTTGGGGGTCAAGAGGCCCCCAGAGCAAGTGGCCCTGG 60
QY 61 CAGGTGAGCTGAGAGTCCAGGCCCATACTGATGCACTTCTGGGGGGGCTCCCTCATC 120
D 61 CAGGTGAGCTGAGAGTCCAGGCCCATACTGATGCACTTCTGGGGGGGCTCCCTCATC 120
QY 121 CACCCCGAGTGGTGTGACCGGACCGCACTGCGTGGAGCCGACGTCAGAGATCTGGCC 180
D 121 CACCCCGAGTGGTGTGACCGGACCGCACTGCGTGGAGCCGACGTCAGAGATCTGGCC 180
QY 181 GCCCTCAGGGTGCACCTGCGGGAGAGCACTCTACTGACAGACCAAGCTGCGGTC 240
D 181 GCCCTCAGGGTGCACCTGCGGGAGAGCACTCTACTGACAGACCAAGCTGCGGTC 240
QY 241 AGCAGGATCATGTGACCCCAAGTCTACACCCCGGAGTCGAGCGGAGATGSCCTG 300
D 241 AGCAGGATCATGTGACCCCAAGTCTACACCCCGGAGTCGAGCGGAGATGSCCTG 300
QY 301 CTGGAGCTGAGAGAGCCGGTGAACGTCCTCAGCCACGTCACACCGTCCCTGCCCCCT 360
D 301 CTGGAGCTGAGAGAGCCGGTGAACGTCCTCAGCCACGTCACACCGTCCCTGCCCCCT 360
QY 361 GCCTCAGAGACCTTCCCGCGGGAGATGCGTGTGCTGCTGCTGCTGCTGCTGCTGCTG 420
D 361 GCCTCAGAGACCTTCCCGCGGGAGATGCGTGTGCTGCTGCTGCTGCTGCTGCTG 420
QY 421 AATGATGAGGGCCCTCCCAACCGGCACTTCTGTAAGGAGGTGAAGATCCCATATGGA 480
D 421 AATGATGAGGGCCCTCCCAACCGGCACTTCTGTAAGGAGGTGAAGATCCCATATGGA 480
QY 481 AACCACAATTTGTGACGCAAAATAACCACTTGGCCGCTACAGGGAGAGAGTCCGCAATC 540
D 481 AACCACAATTTGTGACGCAAAATAACCACTTGGCCGCTACAGGGAGAGAGTCCGCAATC 540
QY 541 GTCCGTGACGACATGCTGTGTGCGGGGAAACCCCGAGAGACTCATGCGACAGCC 600
D 541 GTCCGTGACGACATGCTGTGTGCGGGGAAACCCCGAGAGACTCATGCGACAGCC 600
QY 601 GGGGAGCCACATGCTGTGTGCAAGTGAATGGCACTGGGCTGAGGGGGGAGTGTGAG 660
D 601 GGGGAGCCACATGCTGTGTGCAAGTGAATGGCACTGGGCTGAGGGGGGAGTGTGAG 660

```

QY 661 GCGGAGGGCTGTGCCAGCCAAACCGGCTGGCATCTACACCCGTGTCACTACTTGG 720  
 |||||  
 Db 661 GCGGAGGGCTGTGCCAGCCAAACCGGCTGGCATCTACACCCGTGTCACTACTTGG 720  
 QY 721 GACTGATCCACCACTATGTCCCAAAAAGCCGTGAAGCGGCGCGTGT 771  
 |||||  
 Db 721 GACTGATCCACCACTATGTCCCAAAAAGCCGTGAAGCGGCGCGTGT 771

RESULT 7  
 US-09-598-982C-22  
 ; Sequence 22, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffitt, Mark  
 ; APPLICANT: Haak-Frendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; PRIOR FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 22  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 ; US-09-598-982C-22

Query Match 98.1%; Score 756.6; DB 1; Length 771;  
 Best Local Similarity 98.8%; Pred. No. 0.042;  
 Matches 762; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY 1 GGGCCCCCTCGAGAAAAGATCGTCGGGGGTCAAGAGGCCCCCGAGGAAAGTGGCCCTGG 60  
 |||||  
 Db 1 GGGCCCCCTCGAGAAAAGATCGTCGGGGGTCAAGAGGCCCCCGAGGAAAGTGGCCCTGG 60  
 QY 61 CAGGTGAGCTGAGAGTCCAGCGCCCATCTGAGTGCATTTGCGGGGCTCCCTCATC 120  
 |||||  
 Db 61 CAGGTGAGCTGAGAGTCCAGCGCCCATCTGAGTGCATTTGCGGGGCTCCCTCATC 120  
 QY 121 CACCCCACTGAGGAGTCCAGCGCCCATCTGAGTGCATTTGCGGGGCTCCCTCATC 180  
 |||||  
 Db 121 CACCCCACTGAGGAGTCCAGCGCCCATCTGAGTGCATTTGCGGGGCTCCCTCATC 180  
 QY 181 GCGCTCAAGGGTCAACTGCGGGGAGCACTCTCTAACAAGACCAAGCTGCTGCGGCTC 240  
 |||||  
 Db 181 GCGCTCAAGGGTCAACTGCGGGGAGCACTCTCTAACAAGACCAAGCTGCTGCGGCTC 240  
 QY 241 AGCAGATCATGTGTGCACTGCGGGGAGCACTCTCTAACAAGACCAAGCTGCTGCGGCTC 300  
 |||||  
 Db 241 AGCAGATCATGTGTGCACTGCGGGGAGCACTCTCTAACAAGACCAAGCTGCTGCGGCTC 300  
 QY 301 CTGAGCTGAGAGGAGCGGGTGAACGTTCTCAGCCAGCTGCAAGGATCCCTGCCCCCT 360  
 |||||  
 Db 301 CTGAGCTGAGAGGAGCGGGTGAACGTTCTCAGCCAGCTGCAAGGATCCCTGCCCCCT 360  
 QY 361 GCGTCAAGAGCCTTCCCGCGGGAGTCCGCTGCTGAGTCACTGCTGAGGCGGATGTGAGC 420  
 |||||  
 Db 361 GCGTCAAGAGCCTTCCCGCGGGAGTCCGCTGCTGAGTCACTGCTGAGGCGGATGTGAGC 420  
 QY 421 AATGATGAGCGCTTCCCGCGGGAGTCCGCTGCTGAGTCACTGCTGAGGCGGATGTGAGC 480  
 |||||  
 Db 421 AATGATGAGCGCTTCCCGCGGGAGTCCGCTGCTGAGTCACTGCTGAGGCGGATGTGAGC 480  
 QY 481 AACCAATTTGTGAGCAAAATTAACAACCTTGGCGCTCAAGGAGAGAGAGTCCCGCATC 540  
 |||||

Db 481 AACCAATTTGTGAGCAAAATTAACAACCTTGGCGCTCAAGGAGAGAGAGTCCCGCATC 540  
 QY 541 GTCCGTGACGACATGCTGTGTGCCGGAACAACCCGAGGAGACTATGCCAAGAGACGCC 600  
 |||||  
 Db 541 GTCCGTGACGACATGCTGTGTGCCGGAACAACCCGAGGAGACTATGCCAAGAGACGCC 600  
 QY 601 GCGGACCACTGTGTGCAAGTGAATGGCACTGAGCTGCAAGGCGGGTGTGAGCTGG 660  
 |||||  
 Db 601 GCGGACCACTGTGTGCAAGTGAATGGCACTGAGCTGCAAGGCGGGTGTGAGCTGG 660  
 QY 661 GCGGAGGGCTGTGCCAGCCAAACCGGCTGGCATCTACACCCGTGTCACTACTTGG 720  
 |||||  
 Db 661 GCGGAGGGCTGTGCCAGCCAAACCGGCTGGCATCTACACCCGTGTCACTACTTGG 720  
 QY 721 GACTGATCCACCACTATGTCCCAAAAAGCCGTGAAGCGGCGCGTGT 771  
 |||||  
 Db 721 GACTGATCCACCACTATGTCCCAAAAAGCCGTGAAGCGGCGCGTGT 771

RESULT 8  
 US-09-598-982C-36  
 ; Sequence 36, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffitt, Mark  
 ; APPLICANT: Haak-Frendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; PRIOR FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 36  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (7)..(753)  
 ; US-09-598-982C-36

Query Match 97.9%; Score 755; DB 1; Length 771;  
 Best Local Similarity 98.7%; Pred. No. 0.042;  
 Matches 761; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 1 GGGCCCCCTCGAGAAAAGATCGTCGGGGGTCAAGAGGCCCCCGAGGAAAGTGGCCCTGG 60  
 |||||  
 Db 1 GGGCCCCCTCGAGAAAAGATCGTCGGGGGTCAAGAGGCCCCCGAGGAAAGTGGCCCTGG 60  
 QY 61 CAGGTGAGCTGAGAGTCCAGCGCCCATCTGAGTGCATTTGCGGGGCTCCCTCATC 120  
 |||||  
 Db 61 CAGGTGAGCTGAGAGTCCAGCGCCCATCTGAGTGCATTTGCGGGGCTCCCTCATC 120  
 QY 121 CACCCCACTGAGGAGTCCAGCGCCCATCTGAGTGCATTTGCGGGGCTCCCTCATC 180  
 |||||  
 Db 121 CACCCCACTGAGGAGTCCAGCGCCCATCTGAGTGCATTTGCGGGGCTCCCTCATC 180  
 QY 181 GCGCTCAAGGGTCAACTGCGGGGAGCACTCTCTAACAAGACCAAGCTGCTGCGGCTC 240  
 |||||  
 Db 181 GCGCTCAAGGGTCAACTGCGGGGAGCACTCTCTAACAAGACCAAGCTGCTGCGGCTC 240  
 QY 241 AGCAGATCATGTGTGCACTGCGGGGAGCACTCTCTAACAAGACCAAGCTGCTGCGGCTC 300  
 |||||  
 Db 241 AGCAGATCATGTGTGCACTGCGGGGAGCACTCTCTAACAAGACCAAGCTGCTGCGGCTC 300  
 QY 301 CTGAGCTGAGAGGAGCGGGTGAACGTTCTCAGCCAGCTGCAAGGATCCCTGCCCCCT 360  
 |||||  
 Db 301 CTGAGCTGAGAGGAGCGGGTGAACGTTCTCAGCCAGCTGCAAGGATCCCTGCCCCCT 360  
 QY 361 GCGTCAAGAGCCTTCCCGCGGGAGTCCGCTGCTGAGTCACTGCTGAGGCGGATGTGAGC 420  
 |||||

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Db 361 GCCTCAGAGACTTCCCGGGGATGCGCTGCGTCACTGGCTGGGCGATGTGGAC 420
Qy 421 AATGATGAGCGCCCTCCCAACCGCCATTTCTGTGAAGCGAGTGAAGTCCCATATGAAA 480
Db 421 AATGATGAGCGCCCTCCCAACCGCCATTTCTGTGAAGCGAGTGAAGTCCCATATGAAA 480
Qy 481 AACCAATTTGTGACGCGAAAATACCACTTGGCGCTGACCGGGAGACGAGTCCGGCATC 540
Db 481 AACCAATTTGTGACGCGAAAATACCACTTGGCGCTGACCGGGAGACGAGTCCGGCATC 540
Qy 541 GTCCGTGACGACATGCTGTGTGCGCGGAAACAACCGCGAGGAACTCATGCGAAAGAGACCC 600
Db 541 GTCCGTGACGACATGCTGTGTGCGCGGAAACAACCGCGAGGAACTCATGCGAGGAACTCC 600
Qy 601 GCGGACCACTGTGTGTGAGAGGTGATGAGCTGAGCTGCGAGCGCGGCTGTGAGCTGG 660
Db 601 GCGGACCACTGTGTGTGAGAGGTGATGAGCTGAGCTGCGAGCGCGGCTGTGAGCTGG 660
Qy 661 GCGGAGGCTGTGCGCCAGCGCAACCGCGCTGGCATCTACCGCCGTGACCGTACTG 720
Db 661 GCGGAGGCTGTGCGCCAGCGCAACCGCGCTGGCATCTACCGCCGTGACCGTACTG 720
Qy 721 GACTGATCCACCACTATGTCCCAAAAAGCCGTGAGAGCGCGCCGCTGT 771
Db 721 GACTGATCCACCACTATGTCCCAAAAAGCCGTGAGAGCGCGCCGCTGT 771

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```

RESULT 9
US-09-598-982C-20
; Sequence 20, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSINS, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 20
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURES:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-20

```

```

Query Match 97.7%; Score 753.4; DB 1; Length 771;
Best Local Similarity 98.6%; Pred. No. 0.043; Indels 0; Gaps 0;
Matches 760; Conservative 0; Mismatches 11;

```

```

Qy 1 GGGCCCTCGAAGAAAGATGTCGCGGGGTCAAGAGGCCCCCAAGAGCAAGTGGCCCTGG 60
Db 1 GGGCCCTCGAAGAAAGATGTCGCGGGGTCAAGAGGCCCCCAAGAGCAAGTGGCCCTGG 60
Qy 61 CAGGTGAGCTGAGAGTCCAGAGCCCAATGAGTGAAGTCACTTGTGGGGGGTCCCTCATC 120
Db 61 CAGGTGAGCTGAGAGTCCAGAGCCCAATGAGTGAAGTCACTTGTGGGGGGTCCCTCATC 120
Qy 121 CACCCCAAGTGGTGTGACCGGAGCGGCACTGCGTGGGACCGGACGTCAGAGATCTGGCC 180
Db 121 CACCCCAAGTGGTGTGACCGGAGCGGCACTGCGTGGGACCGGACGTCAGAGATCTGGCC 180
Qy 181 GCCCTCAGAGGTTGCACTGCGGAGGACGACCTCTAATCAAGACCAAGCTGCTGGCTG 240
Db 181 GCCCTCAGAGGTTGCACTGCGGAGGACGACCTCTAATCAAGACCAAGCTGCTGGCTG 240

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Qy 241 AGCAGATCATGCTGACCAACCAATTTCTAACAACCGCCAGATGCGAGCGGACATCCCTG 300
Db 241 AGCAGATCATGCTGACCAACCAATTTCTAACAACCGCCAGATGCGAGCGGACATCCCTG 300
Qy 301 CTGAGGCTGAGAGAGCGCGTGAAGTCTCCAGCCAGCTCCAGAGTTCACCTTCCCTT 360
Db 301 CTGAGGCTGAGAGAGCGCGTGAAGTCTCCAGCCAGCTCCAGAGTTCACCTTCCCTT 360
Qy 361 GCCTCAGAGACTTCCCGGGGATGCGCGGCTGAGCTGAGCTGAGCTGGCGGATGTGGAC 420
Db 361 GCCTCAGAGACTTCCCGGGGATGCGCGGCTGAGCTGAGCTGAGCTGGCGGATGTGGAC 420
Qy 421 AATGATGAGCGCCCTCCCAACCGCCATTTCTGTGAAGCGAGTGAAGTCCCATATGAAA 480
Db 421 AATGATGAGCGCCCTCCCAACCGCCATTTCTGTGAAGCGAGTGAAGTCCCATATGAAA 480
Qy 481 AACCAATTTGTGACGCGAAAATACCACTTGGCGCTGACCGGGAGACGAGTCCGGCATC 540
Db 481 AACCAATTTGTGACGCGAAAATACCACTTGGCGCTGACCGGGAGACGAGTCCGGCATC 540
Qy 541 GTCCGTGACGACATGCTGTGTGCGCGGAAACAACCGCGAGGAACTCATGCGAAAGAGACCC 600
Db 541 GTCCGTGACGACATGCTGTGTGCGCGGAAACAACCGGAGGAACTCATGCGAGGAACTCC 600
Qy 601 GCGGACCACTGTGTGTGAGAGGTGATGAGCTGAGCTGCGAGCGCGGCTGTGAGCTGG 660
Db 601 GCGGACCACTGTGTGTGAGAGGTGATGAGCTGAGCTGCGAGCGCGGCTGTGAGCTGG 660
Qy 661 GCGGAGGCTGTGCGCCAGCGCAACCGCGCTGGCATCTACCGCCGTGACCGTACTG 720
Db 661 GCGGAGGCTGTGCGCCAGCGCAACCGCGCTGGCATCTACCGCCGTGACCGTACTG 720
Qy 721 GACTGATCCACCACTATGTCCCAAAAAGCCGTGAGAGCGCGCCGCTGT 771
Db 721 GACTGATCCACCACTATGTCCCAAAAAGCCGTGAGAGCGCGCCGCTGT 771

```

```

RESULT 10
US-09-598-982C-10
; Sequence 10, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSINS, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 10
; LENGTH: 735
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURES:
; NAME/KEY: CDS
; LOCATION: (1)..(735)
; US-09-598-982C-10

```

```

Query Match 93.9%; Score 723.8; DB 1; Length 735;
Best Local Similarity 99.0%; Pred. No. 0.06; Indels 7; Gaps 0;
Matches 728; Conservative 0; Mismatches 7;

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```

Qy 19 ATGTCGGGGGTGAGAGGCGCCCAAGAGGCAAGTGGCCCTGAGCAAGTGAAGTCTGAGAGT 78
Db 1 ATGTCGGGGGTGAGAGGCGCCCAAGAGGCAAGTGGCCCTGAGCAAGTGAAGTCTGAGAGT 78
Qy 79 CACGCGCCATATCTGATGACATTTCTGCGGGGGCTCCCTCATCCACCCCAAGTGGTCTG 138
Db 79 CACGCGCCATATCTGATGACATTTCTGCGGGGGCTCCCTCATCCACCCCAAGTGGTCTG 138

```

```

QY 139 ACCGAGCGCACTGCGTGGGACCGGACGTCAGAGATCTGGCCCTCAAGGCTGCAACTG 198
DB 121 ACCGAGCGCACTGCGTGGGACCGGACGTCAGAGATCTGGCCCTCAAGGCTGCAACTG 180
QY 199 CGGGAGCAGCACTCTACTACAGAGACCAAGCTGCTGGCCGCTAGAGATCTGCTGAC 258
DB 181 CGGGAGCAGCACTCTACTACAGAGACCAAGCTGCTGGCCGCTAGAGATCTGCTGAC 240
QY 289 CCACAGTCTTACACCGCCAGATGGAGGAGGACATCGCCCTCTGAGGCTGGAGGAGCCG 318
DB 241 CCACAGTCTTACACCGCCAGATGGAGGAGGACATCGCCCTCTGAGGCTGGAGGAGCCG 300
QY 319 GTGAAAGTCTCCAGCCAGCTCCACAAGCTCACTCCCTCCCTCCCTCAGAGACTCTCC 378
DB 301 GTGAAAGTCTCCAGCCAGCTCCACAAGCTCACTCCCTCCCTCCCTCAGAGACTCTCC 360
QY 379 CGGGAGATGCGCTGCTGGGTCACTGGCTGGGGGAGATGGAGACAAATGATGAGCGCTCC 438
DB 361 CGGGAGATGCGCTGCTGGGTCACTGGCTGGGGGAGATGGAGACAAATGATGAGCGCTCC 420
QY 439 CGGCCATTTCTCTGAAAGAGGTTGAAGGTCCTCATTAATGAAACCAATTTGTGACGCA 498
DB 421 CGGCCATTTCTCTGAAAGAGGTTGAAGGTCCTCATTAATGAAACCAATTTGTGACGCA 480
QY 499 AAATAACAACCTTGGCCCTTACACGGGAGACGACGTCCTGCTGCTGACGACATGCTG 558
DB 481 AAATAACAACCTTGGCCCTTACACGGGAGACGACGTCCTGCTGCTGACGACATGCTG 540
QY 559 TGTGCGGGGAGAACCCCGAGGGGACTCATGCCAGAGAGACGCCGGGGAGCACTGGTGTGC 618
DB 541 TGTGCGGGGAGAACCCCGAGGGGACTCATGCCAGAGAGACGCCGGGGAGCACTGGTGTGC 600
QY 619 AAGTGAATGGCACTGGCTGAGGCGGGCTGTGTCAGCTGGGGGAGAGGGCTGTGCCAG 678
DB 601 AAGTGAATGGCACTGGCTGAGGCGGGCTGTGTCAGCTGGGGGAGAGGGCTGTGCCAG 660
QY 679 CCGAACCGGCTGGGATCTACACCCGCTGTCACTTACTTACTTACTTACTTACTTACTT 738
DB 661 CCGAACCGGCTGGGATCTACACCCGCTGTCACTTACTTACTTACTTACTTACTTACTT 720
QY 739 GTCCCAAAAAAGCCG 753
DB 721 GTCCCAAAAAAGCCG 735

```

RESULT 11

```

US-09-598-982C-8/c
; Sequence 8, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 8
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
US-09-598-982C-8

```

```

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17;

```

```

Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;
QY 1 GGGCCCTCGAAGAAAGATGTCGGGGGTCAGAGAGGCCCCAGAGCAAGTGGCCCTGG 60
DB 113 GAGCCCCCGAGAAAGTGCATCGATGATGGCCCTGAGACTCTCAGGCTCACCTGCCAGAGCC 54
QY 61 CAGGTGAGCCTGAGAGTCCAGGCCCATPACTGATGACCTTCTGCGGGGGGCTC 113
DB 53 CACTTGTCTCTGGGGGCTCTCCCTGAGACCCCGAGCATTTCTTCTCGAGGGGGCC 1

```

RESULT 12

```

US-09-598-982C-20/c
; Sequence 20, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 20
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
US-09-598-982C-20

```

```

Query Match 3.7%; Score 28.2; DB 1; Length 771;

```

```

Best Local Similarity 53.1%; Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

```

```

QY 1 GGGCCCTCGAAGAAAGATGTCGGGGGTCAGAGAGGCCCCAGAGCAAGTGGCCCTGG 60
DB 113 GAGCCCCCGAGAAAGTGCATCGATGATGGCCCTGAGACTCTCAGGCTCACCTGCCAGAGCC 54
QY 61 CAGGTGAGCCTGAGAGTCCAGGCCCATPACTGATGACCTTCTGCGGGGGGCTC 113
DB 53 CACTTGTCTCTGGGGGCTCTCCCTGAGACCCCGAGCATTTCTTCTCGAGGGGGCC 1

```

RESULT 13

```

US-09-598-982C-22/c
; Sequence 22, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 22
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
US-09-598-982C-22

```

Query Match Similarity 3.7%; Score 28.2; DB 1; Length 771;
Beat Local Similarity 53.1%; Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

OY 1 GGGCCCTCGAGAAAAGATGTCGGGGGTCAGAGAGCCCGCAGAGCAAGTGGCCCTGG 60
DB 113 GAGCCCCCGAGAAAGTGCATTCAGTATGGCCCGTGAAGCTCTCAGGCTCACCTGCCAGGGC 54
DB 53 CACTTGCTCTGGGGGCTCCTGACCCCGACAGATTTTCTTCGAGGGGGCC 1

RESULT 14
US-09-598-982C-24/c
Sequence 24, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASIS, ACTIVE SITE MUTANTS THEREOF,
TITLE OF INVENTION: AND METHODS OF MAKING SAME
FILE REFERENCE: 34506.104
CURRENT APPLICATION NUMBER: US/09/598, 982C
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079, 970
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 24
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (7)..(753)
US-09-598-982C-24

Query Match Similarity 3.7%; Score 28.2; DB 1; Length 771;
Beat Local Similarity 53.1%; Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;
OY 1 GGGCCCTCGAGAAAAGATGTCGGGGGTCAGAGAGCCCGCAGAGCAAGTGGCCCTGG 60
DB 113 GAGCCCCCGAGAAAGTGCATTCAGTATGGCCCGTGAAGCTCTCAGGCTCACCTGCCAGGGC 54
OY 61 CAGGTGACCTGAGAGTCCAGGCCCAATGATGCACTTCTGGGGGGGCTC 113
DB 53 CACTTGCTCTGGGGGCTCCTGACCCCGACAGATTTTCTTCGAGGGGGCC 1

RESULT 15
US-09-598-982C-26/c
Sequence 26, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASIS, ACTIVE SITE MUTANTS THEREOF,
TITLE OF INVENTION: AND METHODS OF MAKING SAME
FILE REFERENCE: 34506.104
CURRENT APPLICATION NUMBER: US/09/598, 982C
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079, 970
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 26
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:

NAME/KEY: CDS
LOCATION: (7)..(753)
US-09-598-982C-26

Query Match Similarity 3.7%; Score 28.2; DB 1; Length 771;
Beat Local Similarity 53.1%; Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;
OY 1 GGGCCCTCGAGAAAAGATGTCGGGGGTCAGAGAGCCCGCAGAGCAAGTGGCCCTGG 60
DB 113 GAGCCCCCGAGAAAGTGCATTCAGTATGGCCCGTGAAGCTCTCAGGCTCACCTGCCAGGGC 54
OY 61 CAGGTGACCTGAGAGTCCAGGCCCAATGATGCACTTCTGGGGGGGCTC 113
DB 53 CACTTGCTCTGGGGGCTCCTGACCCCGACAGATTTTCTTCGAGGGGGCC 1

RESULT 16
US-09-598-982C-36/c
Sequence 36, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASIS, ACTIVE SITE MUTANTS THEREOF,
TITLE OF INVENTION: AND METHODS OF MAKING SAME
FILE REFERENCE: 34506.104
CURRENT APPLICATION NUMBER: US/09/598, 982C
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079, 970
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 36
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (7)..(753)
US-09-598-982C-36

Query Match Similarity 3.7%; Score 28.2; DB 1; Length 771;
Beat Local Similarity 53.1%; Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;
OY 1 GGGCCCTCGAGAAAAGATGTCGGGGGTCAGAGAGCCCGCAGAGCAAGTGGCCCTGG 60
DB 113 GAGCCCCCGAGAAAGTGCATTCAGTATGGCCCGTGAAGCTCTCAGGCTCACCTGCCAGGGC 54
OY 61 CAGGTGACCTGAGAGTCCAGGCCCAATGATGCACTTCTGGGGGGGCTC 113
DB 53 CACTTGCTCTGGGGGCTCCTGACCCCGACAGATTTTCTTCGAGGGGGCC 1
RESULT 17
US-09-598-982C-38/c
Sequence 38, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASIS, ACTIVE SITE MUTANTS THEREOF,
TITLE OF INVENTION: AND METHODS OF MAKING SAME
FILE REFERENCE: 34506.104
CURRENT APPLICATION NUMBER: US/09/598, 982C
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079, 970
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 38
LENGTH: 771

TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (7)..(753)
US-09-598-982C-38

Query Match
Best Local Similarity 3.7%; Score 28.2; DB 1; Length 771;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

1 GGGCCCTCGAAGAAAAGATGCTGGGGGTGAGAGGCCCCGAGGAGCAAGTGGCCCTGG 60
113 GAGCCCCCGCAGAAAGTGCATCCAGTATGGCCGTGACTCAGAGCTCCTGCCAGG 54
61 CAGGTGAGCCTGAGAGTCCAGCGCCCATPACTGATGCACTTCTGCGGGGCTC 113
53 CACTTGCTCTGGGGGCTCTCCAGACCCCGGAGCATTTCTTTCTCGAAGGGGCC 1

RESULT 18
US-09-598-982C-40/c

Sequence 40, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
TITLE OF INVENTION: AND METHODS OF MAKING SAME
FILE REFERENCE: 34506.104
CURRENT APPLICATION NUMBER: US/09/598,982C
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079,970
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 40
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (7)..(753)
US-09-598-982C-40

Query Match
Best Local Similarity 3.7%; Score 28.2; DB 1; Length 771;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

1 GGGCCCTCGAAGAAAAGATGCTGGGGGTGAGAGGCCCCGAGGAGCAAGTGGCCCTGG 60
113 GAGCCCCCGCAGAAAGTGCATCCAGTATGGCCGTGACTCAGAGCTCCTGCCAGG 54
61 CAGGTGAGCCTGAGAGTCCAGCGCCCATPACTGATGCACTTCTGCGGGGCTC 113
53 CACTTGCTCTGGGGGCTCTCCAGACCCCGGAGCATTTCTTTCTCGAAGGGGCC 1

RESULT 19
US-09-598-982C-42/c

Sequence 42, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
TITLE OF INVENTION: AND METHODS OF MAKING SAME
FILE REFERENCE: 34506.104
CURRENT APPLICATION NUMBER: US/09/598,982C
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079,970
NUMBER OF SEQ ID NOS: 52

SOFTWARE: PatentIn version 3.3
SEQ ID NO 42
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (7)..(753)
US-09-598-982C-42

Query Match
Best Local Similarity 3.7%; Score 28.2; DB 1; Length 771;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

1 GGGCCCTCGAAGAAAAGATGCTGGGGGTGAGAGGCCCCGAGGAGCAAGTGGCCCTGG 60
113 GAGCCCCCGCAGAAAGTGCATCCAGTATGGCCGTGACTCAGAGCTCCTGCCAGG 54
61 CAGGTGAGCCTGAGAGTCCAGCGCCCATPACTGATGCACTTCTGCGGGGCTC 113
53 CACTTGCTCTGGGGGCTCTCCAGACCCCGGAGCATTTCTTTCTCGAAGGGGCC 1

RESULT 20
US-09-598-982C-10/c

Sequence 10, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
TITLE OF INVENTION: AND METHODS OF MAKING SAME
FILE REFERENCE: 34506.104
CURRENT APPLICATION NUMBER: US/09/598,982C
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079,970
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 10
LENGTH: 735
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (1)..(735)
US-09-598-982C-10

Query Match
Best Local Similarity 3.3%; Score 25.6; DB 1; Length 735;
Matches 99; Conservative 0; Mismatches 84; Indels 6; Gaps 2;

286 GCGGACATGCGCCCTGAGAGTGGAGGAGCCGAGTGAAGTCTCCAGCCAGTCCACAG 345
453 GGGGACTTTCACCTTCTCAGAGAAATGGGGGTGGAGGGGCTCATATGTCCACA-- 396
346 GTACCCCTGCCCCCTCCCTCAGAGACTTCCCCCGGGGAGTCCGTGGTCACTG 405
395 -TCGCCCAAGCAGTGCAGCAGCAGCGCATCCCCGGGGGAAAGTCTGTGAGGCGAGGG 337
406 TGGGGCGA--TGTGGAACAATGATGAGGCGCTCCACCGCATTTCTCTGAAGAGGTG 462
336 CAGGGGTGACCGGTGTGAGCTGGCTGGAGACCTTCAACCGGCTCTCCAGACTCCAGAGAGGG 277
463 AAGGTCCC 471
276 GATGTCCG 268

Search completed: August 26, 2005, 12:32:37
Job time : 3.81314 secs



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OM protein - protein search, using sw model  
Run on: August 26, 2005, 12:29:12 ; Search time 0.100161 Seconds  
(without alignments)  
6.180 Million cell updates/sec

Title: US-09-598-982C-9  
Perfect score: 1397  
Sequence: 1 LEKRIVGGQEA PRSKMFWQV.....IYTRVTVYLDWIDHIVPKKP 249  
Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5  
Searched: 10 seqs, 2486 residues

Total number of hits satisfying chosen parameters: 10  
Minimum DB seq length: 0  
Maximum DB seq length: inf  
Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 200 summaries  
Database : US09598982C\_rev.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Result No.	Score	Query Match	Length	ID	Description
1	1397	100.0	249	1	US-09-598-982C-9 Sequence 9, Appl1
2	1394	99.8	249	1	US-09-598-982C-25 Sequence 25, Appl1
3	1394	99.8	249	1	US-09-598-982C-27 Sequence 27, Appl1
4	1389	99.4	249	1	US-09-598-982C-23 Sequence 23, Appl1
5	1389	99.4	249	1	US-09-598-982C-41 Sequence 41, Appl1
6	1389	99.4	249	1	US-09-598-982C-43 Sequence 43, Appl1
7	1387	99.3	249	1	US-09-598-982C-21 Sequence 21, Appl1
8	1384	99.1	249	1	US-09-598-982C-39 Sequence 39, Appl1
9	1382	98.9	249	1	US-09-598-982C-37 Sequence 37, Appl1
10	1378	98.6	245	1	US-09-598-982C-11 Sequence 11, Appl1

ALIGNMENTS

RESULT 1  
US-09-598-982C-9  
Sequence 9, Application US/09598982C  
GENERAL INFORMATION:  
APPLICANT: Niles, Andrew  
APPLICANT: Maffett, Mark  
APPLICANT: Haak-Frendscho, Mary  
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,  
AND METHODS OF MAKING SAME  
FILE REFERENCE: 34506.104  
CURRENT APPLICATION NUMBER: US/09/598,982C  
PRIOR FILING DATE: 2000-06-21  
PRIOR APPLICATION NUMBER: 09/079,970  
NUMBER OF SEQ IDS: 52  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 9  
LENGTH: 249

TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-598-982C-9

Query Match 100.0%; Score 1397; DB 1; Length 249;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 249; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LEKRIVGGQEA PRSKMFWQVSLRVHGPYMMHFCGSLIHPQWVLTAAHCVGPDVKDLAAL 60  
DB 1 LEKRIVGGQEA PRSKMFWQVSLRVHGPYMMHFCGSLIHPQWVLTAAHCVGPDVKDLAAL 60

QY 61 RVQLRQHLVYQDQLLPVSRIVHPQFYTAQIGADIALLEBEPVKKVSSHVHTVTLPPAS 120  
DB 61 RVQLRQHLVYQDQLLPVSRIVHPQFYTAQIGADIALLEBEPVKKVSSHVHTVTLPPAS 120

QY 121 ETPPPGMCWVTGMDVNDNRRLRPPPLKQVPIEMENHICDAKYLHGAATGDDVIR 180  
DB 121 ETPPPGMCWVTGMDVNDNRRLRPPPLKQVPIEMENHICDAKYLHGAATGDDVIR 180

QY 181 DDMLCAGNTRRDSQSGDGGPFLVCKVNGTWLQAGVSMGSCAQPNRPGIYTRVTVYLDW 240  
DB 181 DDMLCAGNTRRDSQSGDGGPFLVCKVNGTWLQAGVSMGSCAQPNRPGIYTRVTVYLDW 240

QY 241 IHHYVPKKP 249  
DB 241 IHHYVPKKP 249

RESULT 2  
US-09-598-982C-25  
Sequence 25, Application US/09598982C  
GENERAL INFORMATION:  
APPLICANT: Niles, Andrew  
APPLICANT: Maffett, Mark  
APPLICANT: Haak-Frendscho, Mary  
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,  
AND METHODS OF MAKING SAME  
FILE REFERENCE: 34506.104  
CURRENT APPLICATION NUMBER: US/09/598,982C  
PRIOR FILING DATE: 2000-06-21  
PRIOR APPLICATION NUMBER: 09/079,970  
NUMBER OF SEQ IDS: 52  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 25  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-598-982C-25

Query Match 99.8%; Score 1394; DB 1; Length 249;  
Best Local Similarity 99.6%; Pred. No. 0;  
Matches 248; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 LEKRIVGGQEA PRSKMFWQVSLRVHGPYMMHFCGSLIHPQWVLTAAHCVGPDVKDLAAL 60  
DB 1 LEKRIVGGQEA PRSKMFWQVSLRVHGPYMMHFCGSLIHPQWVLTAAHCVGPDVKDLAAL 60

QY 61 RVQLRQHLVYQDQLLPVSRIVHPQFYTAQIGADIALLEBEPVKKVSSHVHTVTLPPAS 120  
DB 61 RVQLRQHLVYQDQLLPVSRIVHPQFYTAQIGADIALLEBEPVKKVSSHVHTVTLPPAS 120

QY 121 ETPPPGMCWVTGMDVNDNRRLRPPPLKQVPIEMENHICDAKYLHGAATGDDVIR 180  
DB 121 ETPPPGMCWVTGMDVNDNRRLRPPPLKQVPIEMENHICDAKYLHGAATGDDVIR 180

QY 181 DDMLCAGNTRRDSQSGDGGPFLVCKVNGTWLQAGVSMGSCAQPNRPGIYTRVTVYLDW 240  
DB 181 DDMLCAGNTRRDSQSGDGGPFLVCKVNGTWLQAGVSMGSCAQPNRPGIYTRVTVYLDW 240

QY 241 IHHYVPKKP 249  
DB 241 IHHYVPKKP 249

Db 241 IHHYVKKP 249

RESULT 3

US-09-598-982C-27
Sequence 27, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506.104
CURRENT APPLICATION NUMBER: US/09/598,982C
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079,970
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 27
LENGTH: 249
TYPE: PRF
ORGANISM: Homo sapiens
US-09-598-982C-27

Query Match 99.8%; Score 1394; DB 1; Length 249;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 248; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 LEKRIYGGQEA...
Db 1 LEKRIYGGQEA...
QY 61 RYQLREOH...
Db 61 RYQLREOH...
QY 121 EFPFGM...
Db 121 EFPFGM...
QY 181 DMMLCAG...
Db 181 DMMLCAG...
QY 241 IHHYV...
Db 241 IHHYV...

RESULT 4

US-09-598-982C-23
Sequence 23, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506.104
CURRENT APPLICATION NUMBER: US/09/598,982C
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079,970
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 23
LENGTH: 249
TYPE: PRF
ORGANISM: Homo sapiens
US-09-598-982C-23

Query Match 99.4%; Score 1389; DB 1; Length 249;

Best Local Similarity 99.6%; Pred. No. 0;
Matches 248; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LEKRIYGGQEA...
Db 1 LEKRIYGGQEA...
QY 61 RYQLREOH...
Db 61 RYQLREOH...
QY 121 EFPFGM...
Db 121 EFPFGM...
QY 181 DMMLCAG...
Db 181 DMMLCAG...
QY 241 IHHYV...
Db 241 IHHYV...

RESULT 5

US-09-598-982C-41
Sequence 41, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506.104
CURRENT APPLICATION NUMBER: US/09/598,982C
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079,970
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 41
LENGTH: 249
TYPE: PRF
ORGANISM: Homo sapiens
US-09-598-982C-41

Query Match 99.4%; Score 1389; DB 1; Length 249;
Best Local Similarity 99.2%; Pred. No. 0;
Matches 247; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LEKRIYGGQEA...
Db 1 LEKRIYGGQEA...
QY 61 RYQLREOH...
Db 61 RYQLREOH...
QY 121 EFPFGM...
Db 121 EFPFGM...
QY 181 DMMLCAG...
Db 181 DMMLCAG...
QY 241 IHHYV...
Db 241 IHHYV...

RESULT 6

US-09-598-982C-43

```

; Sequence 43, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffett, Mark
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 43
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-598-982C-43

```

```

Query Match 99.4%; Score 1389; DB 1; Length 249;
Best Local Similarity 99.2%; Pred. No. 0;
Matches 247; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```

```

Oy 1 LEKRIVGGQBARPRSKMFWOVSILRVHGPYMMHFCGGSILHPOWVLTAAHCVGPDVKDLAAL 60
Db 1 LEKRIVGGQBARPRSKMFWOVSILRVHGPYMMHFCGGSILHPOWVLTAAHCVGPDVKDLAAL 60
Oy 61 RVQLRBQHLYYODQLLPSRIIVHPQFYTAQIGADIALLEBEPVKVSSHVHTVTLPPAS 120
Db 61 RVQLRBQHLYYODQLLPSRIIVHPQFYTAQIGADIALLEBEPVKVSSHVHTVTLPPAS 120
Oy 121 ETPPPGMCWVTGWGDVNDRLPPRPLKQVKVPIEMENHICDAKYLGAVTGDDVIR 180
Db 121 ETPPPGMCWVTGWGDVNDRLPPRPLKQVKVPIEMENHICDAKYLGAVTGDDVIR 180
Oy 181 DDMLCAGNTRRSDSCGDSGSPVLCVKNGTWLOAGVSVWEGCAQPNRPGIYTRVTLVLDW 240
Db 181 DDMLCAGNTRRSDSCGDSGSPVLCVKNGTWLOAGVSVWEGCAQPNRPGIYTRVTLVLDW 240
Oy 241 IHHYVPPKP 249
Db 241 IHHYVPPKP 249

```

```

RESULT 7
US-09-598-982C-21
; Sequence 21, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffett, Mark
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 21
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-598-982C-21

```

```

Db 1 LEKRIVGGQBARPRSKMFWOVSILRVHGPYMMHFCGGSILHPOWVLTAAHCVGPDVKDLAAL 60
Oy 61 RVQLRBQHLYYODQLLPSRIIVHPQFYTAQIGADIALLEBEPVKVSSHVHTVTLPPAS 120
Db 61 RVQLRBQHLYYODQLLPSRIIVHPQFYTAQIGADIALLEBEPVKVSSHVHTVTLPPAS 120
Oy 121 ETPPPGMCWVTGWGDVNDRLPPRPLKQVKVPIEMENHICDAKYLGAVTGDDVIR 180
Db 121 ETPPPGMCWVTGWGDVNDRLPPRPLKQVKVPIEMENHICDAKYLGAVTGDDVIR 180
Oy 181 DDMLCAGNTRRSDSCGDSGSPVLCVKNGTWLOAGVSVWEGCAQPNRPGIYTRVTLVLDW 240
Db 181 DDMLCAGNTRRSDSCGDSGSPVLCVKNGTWLOAGVSVWEGCAQPNRPGIYTRVTLVLDW 240
Oy 241 IHHYVPPKP 249
Db 241 IHHYVPPKP 249

```

```

RESULT 8
US-09-598-982C-39
; Sequence 39, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffett, Mark
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 39
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-598-982C-39

```

```

Query Match 99.1%; Score 1384; DB 1; Length 249;
Best Local Similarity 99.2%; Pred. No. 0;
Matches 247; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

```

RESULT 9
US-09-598-982C-37
; Sequence 37, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffett, Mark
; APPLICANT: Haak-Frendscho, Mary
US-09-598-982C-37

```

```

; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 37
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-598-982C-37

```

```

Query Match      98.9%; Score 1382; DB 1; Length 249;
Best Local Similarity 99.2%; Pred. No. 0;
Matches 247; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

```

QY 1 LEKRIYGGQEARSKMPQVSLRHGPRYMMHFGSSGLIHPQWVLTAAHCVGDPVDKIDLAL 60
DB 1 LEKRIYGGQEARSKMPQVSLRHGPRYMMHFGSSGLIHPQWVLTAAHCVGDPVDKIDLAL 60
QY 61 RVDLRQHLIYYDQLLPVSRILIVHPOFYTAQIGADIALLEBEPVKSSEHVTITLPPAS 120
DB 61 RVDLRQHLIYYDQLLPVSRILIVHPOFYTAQIGADIALLEBEPVKSSEHVTITLPPAS 120
QY 121 EPPRPGMPCWVTGMDVNDERLPPRPPLKQVKVPIEMENHICDAKXHLGAYTGDDVRIYR 180
DB 121 EPPRPGMPCWVTGMDVNDERLPPRPPLKQVKVPIEMENHICDAKXHLGAYTGDDVRIYR 180
QY 181 DWLTCAGNTRRSDSCGDSGGPIVCKVNGTWTLQAGVYVSWGEGCAQPNRPBGIYTRYLYLDM 240
DB 181 DWLTCAGNTRRSDSCGDSGGPIVCKVNGTWTLQAGVYVSWGEGCAQPNRPBGIYTRYLYLDM 240
QY 241 IHNYVKPK 249
DB 241 IHNYVKPK 249

```

```

RESULT 10
US-09-598-982C-11
; Sequence 11, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Friendsoho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 11
; LENGTH: 245
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-598-982C-11

```

Query Match 98.6%; Score 1378; DB 1; Length 245; Best Local Similarity 100.0%; Pred. No. 0; Matches 245; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

QY 5 IYGGQEARSKMPQVSLRHGPRYMMHFGSSGLIHPQWVLTAAHCVGDPVDKIDLALRVDL 64
DB 1 IYGGQEARSKMPQVSLRHGPRYMMHFGSSGLIHPQWVLTAAHCVGDPVDKIDLALRVDL 64
QY 65 RQHLIYYDQLLPVSRILIVHPOFYTAQIGADIALLEBEPVKSSEHVTITLPPASETFP 124
DB 61 RQHLIYYDQLLPVSRILIVHPOFYTAQIGADIALLEBEPVKSSEHVTITLPPASETFP 124

```

Search completed: August 26, 2005, 12:29:15  
Job time: 1.10016 secs  
GenCore version 5.1.6  
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OM protein - protein search, using sw model

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Run on: August 26, 2005, 12:29:12; Search time 0.098519 Seconds
      (without alignments)
      6.180 Million cell updates/sec
Title: US-09-598-982C-11
Perfect score: 1378
Sequence: 1 IYGGQEARSKMPQVSLRV.....IYTRYLYLDMIHNYVKPK 245
Scoring table: BLOSUM62
Gapop 10.0, Gapext 0.5
Searched: 10 segs, 2486 residues
Total number of hits satisfying chosen parameters: 10
Minimum DB seq length: 0
Maximum DB seq length: inf
Post-processing: Minimum Match 0%
                  Maximum Match 100%
                  Listing first 200 summaries
Database: US09598982C_rev.pep:*
Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
SUMMARIES
Result No. Score Query Match Length DB ID Description
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1 1378 100.0 245 1 US-09-598-982C-11 Sequence 11, Appl
2 1378 100.0 249 1 US-09-598-982C-9 Sequence 9, Appl
3 1375 99.8 249 1 US-09-598-982C-25 Sequence 25, Appl
4 1375 99.8 249 1 US-09-598-982C-27 Sequence 27, Appl
5 1370 99.4 249 1 US-09-598-982C-23 Sequence 23, Appl
6 1370 99.4 249 1 US-09-598-982C-41 Sequence 41, Appl
7 1370 99.4 249 1 US-09-598-982C-43 Sequence 43, Appl
8 1368 99.1 249 1 US-09-598-982C-21 Sequence 21, Appl
9 1365 99.1 249 1 US-09-598-982C-19 Sequence 19, Appl
10 1363 98.9 249 1 US-09-598-982C-37 Sequence 37, Appl

```

```

; Sequence 11, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendescho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 11
; LENGTH: 245
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-598-982C-11

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Query Match 100.0%; Score 1378; DB 1; Length 245;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 245; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IVGGQEARSRKMPQVSLRVHGPYMMHFCGSSLIHPOWVLTAAHCVGPDVLDLAAALRVQL 60
DB 1 IVGGQEARSRKMPQVSLRVHGPYMMHFCGSSLIHPOWVLTAAHCVGPDVLDLAAALRVQL 60
QY 61 REQHLYYODQLPVSRIIVHPQFYTAQIGADIALLEBEPVYSSHVHTVTLPPASSTFP 120
DB 61 REQHLYYODQLPVSRIIVHPQFYTAQIGADIALLEBEPVYSSHVHTVTLPPASSTFP 120
QY 121 PGMPCWYTGMDVNDRLPPRPLKQVYPIVMEHNCDAKYNHGAAYTGDVRIVRDML 180
DB 121 PGMPCWYTGMDVNDRLPPRPLKQVYPIVMEHNCDAKYNHGAAYTGDVRIVRDML 180
QY 181 CAGNTRRDSGQDSGGLVCKVNGTWTLAGVYVSWGEGCAQPNRPGIYTRVYIYLDWIHHY 240
DB 181 CAGNTRRDSGQDSGGLVCKVNGTWTLAGVYVSWGEGCAQPNRPGIYTRVYIYLDWIHHY 240
QY 241 VPKKP 245
DB 241 VPKKP 245

```

```

RESULT 2
US-09-598-982C-9
; Sequence 9, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendescho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 9
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-598-982C-9

Query Match 100.0%; Score 1378; DB 1; Length 249;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 245; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IVGGQEARSRKMPQVSLRVHGPYMMHFCGSSLIHPOWVLTAAHCVGPDVLDLAAALRVQL 60

```

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DB 5 IVGGQEARSRKMPQVSLRVHGPYMMHFCGSSLIHPOWVLTAAHCVGPDVLDLAAALRVQL 64
QY 61 REQHLYYODQLPVSRIIVHPQFYTAQIGADIALLEBEPVYSSHVHTVTLPPASSTFP 120
DB 65 REQHLYYODQLPVSRIIVHPQFYTAQIGADIALLEBEPVYSSHVHTVTLPPASSTFP 124
QY 121 PGMPCWYTGMDVNDRLPPRPLKQVYPIVMEHNCDAKYNHGAAYTGDVRIVRDML 180
DB 125 PGMPCWYTGMDVNDRLPPRPLKQVYPIVMEHNCDAKYNHGAAYTGDVRIVRDML 184
QY 181 CAGNTRRDSGQDSGGLVCKVNGTWTLAGVYVSWGEGCAQPNRPGIYTRVYIYLDWIHHY 240
DB 185 CAGNTRRDSGQDSGGLVCKVNGTWTLAGVYVSWGEGCAQPNRPGIYTRVYIYLDWIHHY 244
QY 241 VPKKP 245
DB 245 VPKKP 249

```

```

RESULT 3
US-09-598-982C-25
; Sequence 25, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendescho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 25
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-598-982C-25

```

```

Query Match 99.8%; Score 1375; DB 1; Length 249;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 244; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 IVGGQEARSRKMPQVSLRVHGPYMMHFCGSSLIHPOWVLTAAHCVGPDVLDLAAALRVQL 60
DB 5 IVGGQEARSRKMPQVSLRVHGPYMMHFCGSSLIHPOWVLTAAHCVGPDVLDLAAALRVQL 64
QY 61 REQHLYYODQLPVSRIIVHPQFYTAQIGADIALLEBEPVYSSHVHTVTLPPASSTFP 120
DB 65 REQHLYYODQLPVSRIIVHPQFYTAQIGADIALLEBEPVYSSHVHTVTLPPASSTFP 124
QY 121 PGMPCWYTGMDVNDRLPPRPLKQVYPIVMEHNCDAKYNHGAAYTGDVRIVRDML 180
DB 125 PGMPCWYTGMDVNDRLPPRPLKQVYPIVMEHNCDAKYNHGAAYTGDVRIVRDML 184
QY 181 CAGNTRRDSGQDSGGLVCKVNGTWTLAGVYVSWGEGCAQPNRPGIYTRVYIYLDWIHHY 240
DB 185 CAGNTRRDSGQDSGGLVCKVNGTWTLAGVYVSWGEGCAQPNRPGIYTRVYIYLDWIHHY 244
QY 241 VPKKP 245
DB 245 VPKKP 249

RESULT 4
US-09-598-982C-27
; Sequence 27, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendescho, Mary

```

```

; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; PRIOR FILING DATE: 2000-06-21
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 27
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-598-982C-27

```

```

Query Match      99.8%; Score 1375; DB 1; Length 249;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 244; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 IYGGQEARPSKMPQVSLRVHGPYMMHFCGGSIIHPQVLTAAHCVGPDVLDLAAALRVQL 60
DB 5 IYGGQEARPSKMPQVSLRVHGPYMMHFCGGSIIHPQVLTAAHCVGPDVLDLAAALRVQL 64
QY 61 REQHLYYODQLLPSRRIIVHPQFYTAQIGADIALLELEBEPVYKSSHVHTVTLPPASETFP 120
DB 65 REQHLYYODQLLPSRRIIVHPQFYTAQIGADIALLELEBEPVYKSSHVHTVTLPPASETFP 124
QY 121 PGMPCWVTGWDVNDERLPPPPPLKQYKVPIMENHICDAKYHLGAYTGDDVRIVRDML 180
DB 125 PGMPCWVTGWDVNDERLPPPPPLKQYKVPIMENHICDAKYHLGAYTGDDVRIVRDML 184
QY 181 CAGNTRRDSGQDSGSPVLCKVNGTWLQAGVVSWSGCGAQPNNRPGIYTRVYLLDWMIHNY 240
DB 185 CAGNTRRDSGQDSGSPVLCKVNGTWLQAGVVSWSGCGAQPNNRPGIYTRVYLLDWMIHNY 244
QY 241 VPKKP 245
DB 245 VPKKP 249

```

```

RESULT 5
US-09-598-982C-23
; Sequence 23, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Mafilt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 23
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-598-982C-23

```

```

Query Match      99.4%; Score 1370; DB 1; Length 249;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 244; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

QY 121 PGMPCWVTGWDVNDERLPPPPPLKQYKVPIMENHICDAKYHLGAYTGDDVRIVRDML 180
DB 125 PGMPCWVTGWDVNDERLPPPPPLKQYKVPIMENHICDAKYHLGAYTGDDVRIVRDML 184
QY 181 CAGNTRRDSGQDSGSPVLCKVNGTWLQAGVVSWSGCGAQPNNRPGIYTRVYLLDWMIHNY 240
DB 185 CAGNTRRDSGQDSGSPVLCKVNGTWLQAGVVSWSGCGAQPNNRPGIYTRVYLLDWMIHNY 244
QY 241 VPKKP 245
DB 245 VPKKP 249

```

```

RESULT 6
US-09-598-982C-41
; Sequence 41, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Mafilt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 41
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-598-982C-41

```

```

Query Match      99.4%; Score 1370; DB 1; Length 249;
Best Local Similarity 99.2%; Pred. No. 0;
Matches 243; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```

```

QY 1 IYGGQEARPSKMPQVSLRVHGPYMMHFCGGSIIHPQVLTAAHCVGPDVLDLAAALRVQL 60
DB 5 IYGGQEARPSKMPQVSLRVHGPYMMHFCGGSIIHPQVLTAAHCVGPDVLDLAAALRVQL 64
QY 61 REQHLYYODQLLPSRRIIVHPQFYTAQIGADIALLELEBEPVYKSSHVHTVTLPPASETFP 120
DB 65 REQHLYYODQLLPSRRIIVHPQFYTAQIGADIALLELEBEPVYKSSHVHTVTLPPASETFP 124
QY 121 PGMPCWVTGWDVNDERLPPPPPLKQYKVPIMENHICDAKYHLGAYTGDDVRIVRDML 180
DB 125 PGMPCWVTGWDVNDERLPPPPPLKQYKVPIMENHICDAKYHLGAYTGDDVRIVRDML 184
QY 181 CAGNTRRDSGQDSGSPVLCKVNGTWLQAGVVSWSGCGAQPNNRPGIYTRVYLLDWMIHNY 240
DB 185 CAGNTRRDSGQDSGSPVLCKVNGTWLQAGVVSWSGCGAQPNNRPGIYTRVYLLDWMIHNY 244
QY 241 VPKKP 245
DB 245 VPKKP 249

```

```

RESULT 7
US-09-598-982C-43
; Sequence 43, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Mafilt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21

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PRIOR APPLICATION NUMBER: 09/079,970  
 PRIOR FILING DATE: 1998-04-15  
 NUMBER OF SEQ ID NOS: 52  
 SOFTWARE: PatentIn version 3.3  
 SEQ ID NO 43  
 LENGTH: 249  
 TYPE: PRT  
 ORGANISM: Homo sapiens  
 US-09-598-982C-43

Query Match 99.4%; Score 1370; DB 1; Length 249;  
 Best Local Similarity 99.2%; Pred. No. 0;  
 Matches 243; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 1 IVGGGEARSRKMPQVSLRVHGRPYMMHFCGSLIHPQWVLTAAHCVGPDVVDLAAALRYQL 60  
 DB 5 IVGGGEARSRKMPQVSLRVHGRPYMMHFCGSLIHPQWVLTAAHCVGPDVVDLAAALRYQL 64  
 OY 61 REOHLYYODQLPVSRIIVHPQFYTAQIGADIALLEBEPVKSVMHTVTLPPASSTFP 120  
 DB 65 REOHLYYODQLPVSRIIVHPQFYTAQIGADIALLEBEPVKSVMHTVTLPPASSTFP 124  
 OY 121 PGMPCWVTGWGDVNDERLPPFPKQVYVPMENHICDAKXHLGAYTGDDVRIVRDML 180  
 DB 125 PGMPCWVTGWGDVNDERLPPFPKQVYVPMENHICDAKXHLGAYTGDDVRIVRDML 184  
 OY 181 CAGNTRRDSGQSDSGGFLVCKVNGTWTLAGVYVSWGEGCAQPNRPGIYTRVYLDWIHHY 240  
 DB 185 CAGNTRRDSGQSDSGGFLVCKVNGTWTLAGVYVSWGEGCAQPNRPGIYTRVYLDWIHHY 244  
 OY 241 VPKKP 245  
 DB 245 VPKKP 249

RESULT 8

US-09-598-982C-21  
 Sequence 21, Application US/09598982C  
 GENERAL INFORMATION:  
 APPLICANT: Niles, Andrew  
 APPLICANT: Maffitt, Mark  
 APPLICANT: Haak-Frendscho, Mary  
 TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,  
 FILE REFERENCE: 34506.104  
 CURRENT FILING DATE: 2000-06-21  
 PRIOR APPLICATION NUMBER: US/09/598,982C  
 PRIOR FILING DATE: 1998-04-15  
 NUMBER OF SEQ ID NOS: 52  
 SOFTWARE: PatentIn version 3.3  
 SEQ ID NO 21  
 LENGTH: 249  
 TYPE: PRT  
 ORGANISM: Homo sapiens  
 US-09-598-982C-21

Query Match 99.3%; Score 1368; DB 1; Length 249;  
 Best Local Similarity 99.6%; Pred. No. 0;  
 Matches 244; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 181 CAGNTRRDSGQSDSGGFLVCKVNGTWTLAGVYVSWGEGCAQPNRPGIYTRVYLDWIHHY 240  
 DB 185 CAGNTRRDSGQSDSGGFLVCKVNGTWTLAGVYVSWGEGCAQPNRPGIYTRVYLDWIHHY 244  
 OY 241 VPKKP 245  
 DB 245 VPKKP 249

Query Match 99.1%; Score 1365; DB 1; Length 249;  
 Best Local Similarity 99.2%; Pred. No. 0;  
 Matches 243; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 IVGGGEARSRKMPQVSLRVHGRPYMMHFCGSLIHPQWVLTAAHCVGPDVVDLAAALRYQL 60  
 DB 5 IVGGGEARSRKMPQVSLRVHGRPYMMHFCGSLIHPQWVLTAAHCVGPDVVDLAAALRYQL 64  
 OY 61 REOHLYYODQLPVSRIIVHPQFYTAQIGADIALLEBEPVKSVMHTVTLPPASSTFP 120  
 DB 65 REOHLYYODQLPVSRIIVHPQFYTAQIGADIALLEBEPVKSVMHTVTLPPASSTFP 124  
 OY 121 PGMPCWVTGWGDVNDERLPPFPKQVYVPMENHICDAKXHLGAYTGDDVRIVRDML 180  
 DB 125 PGMPCWVTGWGDVNDERLPPFPKQVYVPMENHICDAKXHLGAYTGDDVRIVRDML 184  
 OY 181 CAGNTRRDSGQSDSGGFLVCKVNGTWTLAGVYVSWGEGCAQPNRPGIYTRVYLDWIHHY 240  
 DB 185 CAGNTRRDSGQSDSGGFLVCKVNGTWTLAGVYVSWGEGCAQPNRPGIYTRVYLDWIHHY 244  
 OY 241 VPKKP 245  
 DB 245 VPKKP 249

RESULT 9

US-09-598-982C-39  
 Sequence 39, Application US/09598982C  
 GENERAL INFORMATION:  
 APPLICANT: Niles, Andrew  
 APPLICANT: Maffitt, Mark  
 APPLICANT: Haak-Frendscho, Mary  
 TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,  
 FILE REFERENCE: 34506.104  
 CURRENT FILING DATE: 2000-06-21  
 PRIOR APPLICATION NUMBER: US/09/598,982C  
 PRIOR FILING DATE: 1998-04-15  
 NUMBER OF SEQ ID NOS: 52  
 SOFTWARE: PatentIn version 3.3  
 SEQ ID NO 37

LENGTH: 249  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-598-982C-37

Query Match 98.9%; Score 1363; DB 1; Length 249;  
Best Local Similarity 99.2%; Pred. No. 0;  
Matches 243; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

1 IYGGQAPRSKMPWQVSLRVHGPYMHFPCGSLIHPQWVLTAAACVGPVVDLALRYQL 60  
5 IYGGQAPRSKMPWQVSLRVHGPYMHFPCGSLIHPQWVLTAAACVGPVVDLALRYQL 64  
61 REQHLIYQDQLLPSRRIIVHPQFYTAQIGADIALLELEBPVKVSSHHTVTLPPAS 120  
65 REQHLIYQDQLLPSRRIIVHPQFYTAQIGADIALLELEBPVKVSSHHTVTLPPAS 124  
121 PGMPCWVTGWDVNDRLPPPPPLKQVKVPIWENHI CDAKYHLAGAYTGDVRIYR 180  
125 PGMPCWVTGWDVNDRLPPPPPLKQVKVPIWENHI CDAKYHLAGAYTGDVRIYR 184  
181 CAGNTRRDSGCGSDSGPLVCKVNGTWLQAGVSWBGCQAQPNRPGIYTRVYIYLDW 240  
185 CAGNTRRDSGCGSDSGPLVCKVNGTWLQAGVSWBGCQAQPNRPGIYTRVYIYLDW 244  
241 VPKKP 245  
245 VPKKP 249

Search completed: August 26, 2005, 12:29:15  
Job time : 0.0985519 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: August 26, 2005, 12:29:12; Search time 0.100161 Seconds  
(without alignments)  
6.180 Million cell updates/sec

Title: US-09-598-982C-21

Perfect score: 1393  
Sequence: 1 LEKRIYGGQAPRSKMPWQV.....IYTRVYIYLDWTHHYVPKKP 249

Scoring table: BLOSSUM62  
Gapop 10.0, Gapext 0.5

Searched: 10 segs, 2486 residues

Total number of hits satisfying chosen parameters: 10

Minimum DB seq length: 0  
Maximum DB seq length: inf

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 200 summaries

Database : US09598982C\_rev.pep.\*

Pred. No. is the number of results predicted by change to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No. Score Match Length DB ID Description  
1 1393 100.0 249 1 US-09-598-982C-21 Sequence 21, Appl

2 1388 99.6 249 1 US-09-598-982C-37 Sequence 37, Appl  
3 1387 99.6 249 1 US-09-598-982C-9 Sequence 9, Appl  
4 1384 99.4 249 1 US-09-598-982C-25 Sequence 25, Appl  
5 1384 99.4 249 1 US-09-598-982C-27 Sequence 27, Appl  
6 1379 99.0 249 1 US-09-598-982C-23 Sequence 23, Appl  
7 1379 99.0 249 1 US-09-598-982C-41 Sequence 41, Appl  
8 1379 99.0 249 1 US-09-598-982C-43 Sequence 43, Appl  
9 1374 98.6 249 1 US-09-598-982C-39 Sequence 39, Appl  
10 1368 98.2 245 1 US-09-598-982C-11 Sequence 11, Appl

ALIGNMENTS

RESULT 1  
US-09-598-982C-21  
Sequence 21, Application US/09598982C  
GENERAL INFORMATION:  
APPLICANT: Niles, Andrew  
APPLICANT: Maffitt, Mark  
APPLICANT: Haak-Frendscho, Mary  
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASINS, ACTIVE SITE MUTANTS THEREOF,  
FILE REFERENCE: 34506.104  
CURRENT APPLICATION NUMBER: US/09/598, 982C  
PRIOR FILING DATE: 2000-06-21  
PRIOR APPLICATION NUMBER: 09/079,970  
NUMBER OF SEQ ID NOS: 52  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 21  
TYPE: PRT  
LENGTH: 249  
ORGANISM: Homo sapiens  
US-09-598-982C-21

Query Match 100.0%; Score 1393; DB 1; Length 249;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 249; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 LEKRIYGGQAPRSKMPWQVSLRVHGPYMHFPCGSLIHPQWVLTAAACVGPVVDLAL 60  
1 LEKRIYGGQAPRSKMPWQVSLRVHGPYMHFPCGSLIHPQWVLTAAACVGPVVDLAL 60  
61 RYQLEREQHLIYQDQLLPSRRIIVHPQFYTAQIGADIALLELEBPVKVSSHHTVTLPPAS 120  
61 RYQLEREQHLIYQDQLLPSRRIIVHPQFYTAQIGADIALLELEBPVKVSSHHTVTLPPAS 120  
121 ETPPMPWVTGWDVNDRLPPPPPLKQVKVPIWENHI CDAKYHLAGAYTGDVRIYR 180  
121 ETPPMPWVTGWDVNDRLPPPPPLKQVKVPIWENHI CDAKYHLAGAYTGDVRIYR 180  
181 DDMLCAGNTRRDSGCGSDSGPLVCKVNGTWLQAGVSWBGCQAQPNRPGIYTRVYIYLDW 240  
181 DDMLCAGNTRRDSGCGSDSGPLVCKVNGTWLQAGVSWBGCQAQPNRPGIYTRVYIYLDW 240  
241 IHHYVPKKP 249  
241 IHHYVPKKP 249

RESULT 2  
US-09-598-982C-37  
Sequence 37, Application US/09598982C  
GENERAL INFORMATION:  
APPLICANT: Niles, Andrew  
APPLICANT: Maffitt, Mark  
APPLICANT: Haak-Frendscho, Mary  
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASINS, ACTIVE SITE MUTANTS THEREOF,  
FILE REFERENCE: 34506.104  
CURRENT APPLICATION NUMBER: US/09/598, 982C  
CURRENT FILING DATE: 2000-06-21



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; PRIOR APPLICATION NUMBER: 09/079,970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 37
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-598-982C-37

```

```

Query Match 99.6%; Score 1388; DB 1; Length 249;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 248; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

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QY 1 LEKRTVGGQEARSRKMPQVSLRVHGPYMMHFCCGSSLIHPPQVLTAAACVGPVDVLDLAL 60
DB 1 LEKRTVGGQEARSRKMPQVSLRVHGPYMMHFCCGSSLIHPPQVLTAAACVGPVDVLDLAL 60
QY 61 RVQLREOHLYYQDQLLPVSRITIVHPQFYTAQIGADIALLEBEPVKVSSHVHTVTLPPAS 120
DB 61 RVQLREOHLYYQDQLLPVSRITIVHPQFYTAQIGADIALLEBEPVKVSSHVHTVTLPPAS 120
QY 121 ETPFGMPQWVTGWGDVNDERLPPPPPLKQVKVPIIMENHICDAKYHLGAYTGDDVRIYR 180
DB 121 ETPFGMPQWVTGWGDVNDERLPPPPPLKQVKVPIIMENHICDAKYHLGAYTGDDVRIYR 180
QY 181 DDMLCAGNTRRDSQQGDSGGPLVCKVNGTWMLOAGVSVMSGEGCAQPNRPGIYTRVYYILDW 240
DB 181 DDMLCAGNTRRDSQQGDSGGPLVCKVNGTWMLOAGVSVMSGEGCAQPNRPGIYTRVYYILDW 240
QY 241 IHHYVPKKP 249
DB 241 IHHYVPKKP 249

```

```

RESULT 3
US-09-598-982C-9
; Sequence 9, Application US/095598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffett, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; PRIOR FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 9
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-598-982C-9

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Query Match 99.6%; Score 1387; DB 1; Length 249;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 248; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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QY 181 DDMLCAGNTRRDSQQGDSGGPLVCKVNGTWMLOAGVSVMSGEGCAQPNRPGIYTRVYYILDW 240
DB 181 DDMLCAGNTRRDSQQGDSGGPLVCKVNGTWMLOAGVSVMSGEGCAQPNRPGIYTRVYYILDW 240
QY 241 IHHYVPKKP 249
DB 241 IHHYVPKKP 249

```

```

Query Match 99.4%; Score 1384; DB 1; Length 249;
Best Local Similarity 99.2%; Pred. No. 0;
Matches 247; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```

```

QY 1 LEKRTVGGQEARSRKMPQVSLRVHGPYMMHFCCGSSLIHPPQVLTAAACVGPVDVLDLAL 60
DB 1 LEKRTVGGQEARSRKMPQVSLRVHGPYMMHFCCGSSLIHPPQVLTAAACVGPVDVLDLAL 60
QY 61 RVQLREOHLYYQDQLLPVSRITIVHPQFYTAQIGADIALLEBEPVKVSSHVHTVTLPPAS 120
DB 61 RVQLREOHLYYQDQLLPVSRITIVHPQFYTAQIGADIALLEBEPVKVSSHVHTVTLPPAS 120
QY 121 ETPFGMPQWVTGWGDVNDERLPPPPPLKQVKVPIIMENHICDAKYHLGAYTGDDVRIYR 180
DB 121 ETPFGMPQWVTGWGDVNDERLPPPPPLKQVKVPIIMENHICDAKYHLGAYTGDDVRIYR 180
QY 181 DDMLCAGNTRRDSQQGDSGGPLVCKVNGTWMLOAGVSVMSGEGCAQPNRPGIYTRVYYILDW 240
DB 181 DDMLCAGNTRRDSQQGDSGGPLVCKVNGTWMLOAGVSVMSGEGCAQPNRPGIYTRVYYILDW 240
QY 241 IHHYVPKKP 249
DB 241 IHHYVPKKP 249

```

```

RESULT 5
US-09-598-982C-27
; Sequence 27, Application US/095598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffett, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; PRIOR FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 27

```

LENGTH: 249
TYPE: PRT
ORGANISM: Homo sapiens
US-09-598-982C-27

Query Match 99.4%; Score 1384; DB 1; Length 249;
Best Local Similarity 99.2%; Pred. No. 0;
Matches 247; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

1 LEKRIYGGQEARPSKMPQVSLRVHGRPYMMHFCGSSLIHPQWVLTAAACVGPVDVLDLAL
1 LEKRIYGGQEARPSKMPQVSLRVHGRPYMMHFCGSSLIHPQWVLTAAACVGPVDVLDLAL
60
61 RYQLRQOHLYYQDQLLPVSRITIVHPQFYTAQIGADIALLELEBPVNVSSHVHTVTLPPAS
61 RYQLRQOHLYYQDQLLPVSRITIVHPQFYTAQIGADIALLELEBPVNVSSHVHTVTLPPAS
120
61 RYQLRQOHLYYQDQLLPVSRITIVHPQFYTAQIGADIALLELEBPVNVSSHVHTVTLPPAS
61 RYQLRQOHLYYQDQLLPVSRITIVHPQFYTAQIGADIALLELEBPVNVSSHVHTVTLPPAS
120
61 RYQLRQOHLYYQDQLLPVSRITIVHPQFYTAQIGADIALLELEBPVNVSSHVHTVTLPPAS
120
121 EFPFGMPCWVTGWDVNDERLPPFPPLKQYKVPIMENHICDAKXHLGAYTGDDVRIYR
121 EFPFGMPCWVTGWDVNDERLPPFPPLKQYKVPIMENHICDAKXHLGAYTGDDVRIYR
180
121 EFPFGMPCWVTGWDVNDERLPPFPPLKQYKVPIMENHICDAKXHLGAYTGDDVRIYR
121 EFPFGMPCWVTGWDVNDERLPPFPPLKQYKVPIMENHICDAKXHLGAYTGDDVRIYR
180
121 EFPFGMPCWVTGWDVNDERLPPFPPLKQYKVPIMENHICDAKXHLGAYTGDDVRIYR
121 EFPFGMPCWVTGWDVNDERLPPFPPLKQYKVPIMENHICDAKXHLGAYTGDDVRIYR
180
181 DMWLCAGNTRRDS CGGDSGGPVLCKVNGTWLQAGVVSMBEGCAQPNRPGIYTRVYYLDM
181 DMWLCAGNTRRDS CGGDSGGPVLCKVNGTWLQAGVVSMBEGCAQPNRPGIYTRVYYLDM
240
241 IHHYVKKP 249
241 IHHYVKKP 249

RESULT 6
US-09-598-982C-23
Sequence 23, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
TITLE OF INVENTION: AND METHODS OF MAKING SAME
FILE REFERENCE: 34506.104
CURRENT FILING DATE: 2000-06-21
CURRENT APPLICATION NUMBER: US/09/598,982C
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 09/079,970
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 23
LENGTH: 249
TYPE: PRT
ORGANISM: Homo sapiens
US-09-598-982C-23

Query Match 99.0%; Score 1379; DB 1; Length 249;
Best Local Similarity 99.2%; Pred. No. 0;
Matches 247; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
1 LEKRIYGGQEARPSKMPQVSLRVHGRPYMMHFCGSSLIHPQWVLTAAACVGPVDVLDLAL
1 LEKRIYGGQEARPSKMPQVSLRVHGRPYMMHFCGSSLIHPQWVLTAAACVGPVDVLDLAL
60
1 LEKRIYGGQEARPSKMPQVSLRVHGRPYMMHFCGSSLIHPQWVLTAAACVGPVDVLDLAL
60
61 RYQLRQOHLYYQDQLLPVSRITIVHPQFYTAQIGADIALLELEBPVNVSSHVHTVTLPPAS
61 RYQLRQOHLYYQDQLLPVSRITIVHPQFYTAQIGADIALLELEBPVNVSSHVHTVTLPPAS
120
61 RYQLRQOHLYYQDQLLPVSRITIVHPQFYTAQIGADIALLELEBPVNVSSHVHTVTLPPAS
61 RYQLRQOHLYYQDQLLPVSRITIVHPQFYTAQIGADIALLELEBPVNVSSHVHTVTLPPAS
120
61 RYQLRQOHLYYQDQLLPVSRITIVHPQFYTAQIGADIALLELEBPVNVSSHVHTVTLPPAS
120
121 EFPFGMPCWVTGWDVNDERLPPFPPLKQYKVPIMENHICDAKXHLGAYTGDDVRIYR
121 EFPFGMPCWVTGWDVNDERLPPFPPLKQYKVPIMENHICDAKXHLGAYTGDDVRIYR
180
121 EFPFGMPCWVTGWDVNDERLPPFPPLKQYKVPIMENHICDAKXHLGAYTGDDVRIYR
121 EFPFGMPCWVTGWDVNDERLPPFPPLKQYKVPIMENHICDAKXHLGAYTGDDVRIYR
180
121 EFPFGMPCWVTGWDVNDERLPPFPPLKQYKVPIMENHICDAKXHLGAYTGDDVRIYR
121 EFPFGMPCWVTGWDVNDERLPPFPPLKQYKVPIMENHICDAKXHLGAYTGDDVRIYR
180
181 DMWLCAGNTRRDS CGGDSGGPVLCKVNGTWLQAGVVSMBEGCAQPNRPGIYTRVYYLDM
181 DMWLCAGNTRRDS CGGDSGGPVLCKVNGTWLQAGVVSMBEGCAQPNRPGIYTRVYYLDM
240
241 IHHYVKKP 249
241 IHHYVKKP 249

241 IHHYVKKP 249

RESULT 7
US-09-598-982C-41
Sequence 41, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
TITLE OF INVENTION: AND METHODS OF MAKING SAME
FILE REFERENCE: 34506.104
CURRENT FILING DATE: 2000-06-21
CURRENT APPLICATION NUMBER: US/09/598,982C
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 41
LENGTH: 249
TYPE: PRT
ORGANISM: Homo sapiens
US-09-598-982C-41

Query Match 99.0%; Score 1379; DB 1; Length 249;
Best Local Similarity 98.8%; Pred. No. 0;
Matches 246; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

1 LEKRIYGGQEARPSKMPQVSLRVHGRPYMMHFCGSSLIHPQWVLTAAACVGPVDVLDLAL
1 LEKRIYGGQEARPSKMPQVSLRVHGRPYMMHFCGSSLIHPQWVLTAAACVGPVDVLDLAL
60
61 RYQLRQOHLYYQDQLLPVSRITIVHPQFYTAQIGADIALLELEBPVNVSSHVHTVTLPPAS
61 RYQLRQOHLYYQDQLLPVSRITIVHPQFYTAQIGADIALLELEBPVNVSSHVHTVTLPPAS
120
61 RYQLRQOHLYYQDQLLPVSRITIVHPQFYTAQIGADIALLELEBPVNVSSHVHTVTLPPAS
61 RYQLRQOHLYYQDQLLPVSRITIVHPQFYTAQIGADIALLELEBPVNVSSHVHTVTLPPAS
120
61 RYQLRQOHLYYQDQLLPVSRITIVHPQFYTAQIGADIALLELEBPVNVSSHVHTVTLPPAS
120
121 EFPFGMPCWVTGWDVNDERLPPFPPLKQYKVPIMENHICDAKXHLGAYTGDDVRIYR
121 EFPFGMPCWVTGWDVNDERLPPFPPLKQYKVPIMENHICDAKXHLGAYTGDDVRIYR
180
121 EFPFGMPCWVTGWDVNDERLPPFPPLKQYKVPIMENHICDAKXHLGAYTGDDVRIYR
121 EFPFGMPCWVTGWDVNDERLPPFPPLKQYKVPIMENHICDAKXHLGAYTGDDVRIYR
180
121 EFPFGMPCWVTGWDVNDERLPPFPPLKQYKVPIMENHICDAKXHLGAYTGDDVRIYR
121 EFPFGMPCWVTGWDVNDERLPPFPPLKQYKVPIMENHICDAKXHLGAYTGDDVRIYR
180
181 DMWLCAGNTRRDS CGGDSGGPVLCKVNGTWLQAGVVSMBEGCAQPNRPGIYTRVYYLDM
181 DMWLCAGNTRRDS CGGDSGGPVLCKVNGTWLQAGVVSMBEGCAQPNRPGIYTRVYYLDM
240
241 IHHYVKKP 249
241 IHHYVKKP 249

RESULT 8
US-09-598-982C-43
Sequence 43, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
TITLE OF INVENTION: AND METHODS OF MAKING SAME
FILE REFERENCE: 34506.104
CURRENT FILING DATE: 2000-06-21
CURRENT APPLICATION NUMBER: US/09/598,982C
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 43
LENGTH: 249
TYPE: PRT
ORGANISM: Homo sapiens
US-09-598-982C-43

1 LEKRIYGGQEARPSKMPQVSLRVHGRPYMMHFCGSSLIHPQWVLTAAACVGPVDVLDLAL
1 LEKRIYGGQEARPSKMPQVSLRVHGRPYMMHFCGSSLIHPQWVLTAAACVGPVDVLDLAL
60
1 LEKRIYGGQEARPSKMPQVSLRVHGRPYMMHFCGSSLIHPQWVLTAAACVGPVDVLDLAL
60
61 RYQLRQOHLYYQDQLLPVSRITIVHPQFYTAQIGADIALLELEBPVNVSSHVHTVTLPPAS
61 RYQLRQOHLYYQDQLLPVSRITIVHPQFYTAQIGADIALLELEBPVNVSSHVHTVTLPPAS
120
61 RYQLRQOHLYYQDQLLPVSRITIVHPQFYTAQIGADIALLELEBPVNVSSHVHTVTLPPAS
61 RYQLRQOHLYYQDQLLPVSRITIVHPQFYTAQIGADIALLELEBPVNVSSHVHTVTLPPAS
120
61 RYQLRQOHLYYQDQLLPVSRITIVHPQFYTAQIGADIALLELEBPVNVSSHVHTVTLPPAS
120
121 EFPFGMPCWVTGWDVNDERLPPFPPLKQYKVPIMENHICDAKXHLGAYTGDDVRIYR
121 EFPFGMPCWVTGWDVNDERLPPFPPLKQYKVPIMENHICDAKXHLGAYTGDDVRIYR
180
121 EFPFGMPCWVTGWDVNDERLPPFPPLKQYKVPIMENHICDAKXHLGAYTGDDVRIYR
121 EFPFGMPCWVTGWDVNDERLPPFPPLKQYKVPIMENHICDAKXHLGAYTGDDVRIYR
180
121 EFPFGMPCWVTGWDVNDERLPPFPPLKQYKVPIMENHICDAKXHLGAYTGDDVRIYR
121 EFPFGMPCWVTGWDVNDERLPPFPPLKQYKVPIMENHICDAKXHLGAYTGDDVRIYR
180
181 DMWLCAGNTRRDS CGGDSGGPVLCKVNGTWLQAGVVSMBEGCAQPNRPGIYTRVYYLDM
181 DMWLCAGNTRRDS CGGDSGGPVLCKVNGTWLQAGVVSMBEGCAQPNRPGIYTRVYYLDM
240
241 IHHYVKKP 249
241 IHHYVKKP 249

Query Match 99.0%; Score 1379; DB 1; Length 249;  
 Best Local Similarity 98.8%; Pred. No. 0;  
 Matches 246; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 LKRRIVGGQEARSRKMPQVSLRVHGPYWMHFCCGSSLHHPQWVLTAAACVGPVDVLDLAA 60  
 DB 1 LKRRIVGGQEARSRKMPQVSLRVHGPYWMHFCCGSSLHHPQWVLTAAACVGPVDVLDLAA 60  
 QY 61 RYQVLAEBQHLYYQDQLLPSRRIIVHPOFYTAQIGADIALLEBEPKVS SHHTVTLPPAS 120  
 DB 61 RYQVLAEBQHLYYQDQLLPSRRIIVHPOFYTAQIGADIALLEBEPKVS SHHTVTLPPAS 120  
 QY 121 EYFPFGMPCWYTWGMDVNDERLPPFPPLKQVYKVPIMENHICDAKTHLGAATYGDVRIYR 180  
 DB 121 EYFPFGMPCWYTWGMDVNDERLPPFPPLKQVYKVPIMENHICDAKTHLGAATYGDVRIYR 180  
 QY 181 DMMLCAGNTRRSDSCGDSGGPVLCKVNGTWTLAGVVSWMGBCAOPNRRPGIYTRVYYLIDW 240  
 DB 181 DMMLCAGNTRRSDSCGDSGGPVLCKVNGTWTLAGVVSWMGBCAOPNRRPGIYTRVYYLIDW 240  
 QY 241 IHHVYVKKP 249  
 DB 241 IHHVYVKKP 249

RESULT 9  
 US-09-598-982C-39  
 ; Sequence 39, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffitt, Mark  
 ; APPLICANT: Haak-Frendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,  
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598, 982C  
 ; PRIOR FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079, 970  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 39  
 ; LENGTH: 249  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; US-09-598-982C-39

Query Match 98.6%; Score 1374; DB 1; Length 249;  
 Best Local Similarity 98.8%; Pred. No. 0;  
 Matches 246; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 LKRRIVGGQEARSRKMPQVSLRVHGPYWMHFCCGSSLHHPQWVLTAAACVGPVDVLDLAA 60  
 DB 1 LKRRIVGGQEARSRKMPQVSLRVHGPYWMHFCCGSSLHHPQWVLTAAACVGPVDVLDLAA 60  
 QY 61 RYQVLAEBQHLYYQDQLLPSRRIIVHPOFYTAQIGADIALLEBEPKVS SHHTVTLPPAS 120  
 DB 61 RYQVLAEBQHLYYQDQLLPSRRIIVHPOFYTAQIGADIALLEBEPKVS SHHTVTLPPAS 120  
 QY 121 EYFPFGMPCWYTWGMDVNDERLPPFPPLKQVYKVPIMENHICDAKTHLGAATYGDVRIYR 180  
 DB 121 EYFPFGMPCWYTWGMDVNDERLPPFPPLKQVYKVPIMENHICDAKTHLGAATYGDVRIYR 180  
 QY 181 DMMLCAGNTRRSDSCGDSGGPVLCKVNGTWTLAGVVSWMGBCAOPNRRPGIYTRVYYLIDW 240  
 DB 181 DMMLCAGNTRRSDSCGDSGGPVLCKVNGTWTLAGVVSWMGBCAOPNRRPGIYTRVYYLIDW 240  
 QY 241 IHHVYVKKP 249  
 DB 241 IHHVYVKKP 249

US-09-598-982C-11  
 ; Sequence 11, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffitt, Mark  
 ; APPLICANT: Haak-Frendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,  
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598, 982C  
 ; PRIOR FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079, 970  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 11  
 ; LENGTH: 245  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; US-09-598-982C-11

Query Match 98.2%; Score 1368; DB 1; Length 245;  
 Best Local Similarity 99.6%; Pred. No. 0;  
 Matches 244; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 5 IYGGQEARSRKMPQVSLRVHGPYWMHFCCGSSLHHPQWVLTAAACVGPVDVLDLAA 64  
 DB 1 IYGGQEARSRKMPQVSLRVHGPYWMHFCCGSSLHHPQWVLTAAACVGPVDVLDLAA 60  
 QY 65 RQHLHYQDQLLPSRRIIVHPOFYTAQIGADIALLEBEPKVS SHHTVTLPPAS 124  
 DB 61 RQHLHYQDQLLPSRRIIVHPOFYTAQIGADIALLEBEPKVS SHHTVTLPPAS 120  
 QY 125 PGMPCWYTWGMDVNDERLPPFPPLKQVYKVPIMENHICDAKTHLGAATYGDVRIYR 184  
 DB 121 PGMPCWYTWGMDVNDERLPPFPPLKQVYKVPIMENHICDAKTHLGAATYGDVRIYR 180  
 QY 185 CAGNTRRSDSCGDSGGPVLCKVNGTWTLAGVVSWMGBCAOPNRRPGIYTRVYYLIDW 244  
 DB 181 CAGNTRRSDSCGDSGGPVLCKVNGTWTLAGVVSWMGBCAOPNRRPGIYTRVYYLIDW 240  
 QY 245 VPKKP 249  
 DB 241 VPKKP 245

Search completed: August 26, 2005, 12:29:15  
 Job time : 0.100161 secs  
 GenCore version 5.1.6  
 Copyright (c) 1993 - 2005 CompuGen Ltd.  
 OM protein - protein search, using sw model

Run on: August 26, 2005, 12:29:12 ; Search time 0.100161 Seconds  
 (without alignments)  
 6.180 Million cell updates/sec

Title: US-09-598-982C-23  
 Perfect score: 1395  
 Sequence: 1 LKRRIVGGQEARSRKMPQV.....IYTRVYYLIDW IHHVYVKKP 249

Scoring table: BLOSUM62  
 Gapop 10.0, Gapext 0.5

Searched: 10 seqs, 2486 residues

Total number of hits satisfying chosen parameters: 10

Minimum DB seq length: 0  
 Maximum DB seq length: inf

Post-Processing: Minimum Match 0%
Maximum Match 100%
Listing first 200 summaries
Database : US09598982C\_rev.pep.\*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Table with columns: Result No., Query Match, Length, DB, ID, Description. Contains 10 rows of sequence alignment data.

ALIGNMENTS

RESULT 1
US-09-598-982C-23
Sequence 23, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506.104
CURRENT APPLICATION NUMBER: US/09/598,982C
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 23
LENGTH: 249
TYPE: PRP
ORGANISM: Homo sapiens
US-09-598-982C-23

Query Match 100.0%; Score 1395; DB 1; Length 249;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 249; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 241 IHHYVKKP 249

RESULT 2
US-09-598-982C-39
Sequence 39, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506.104
CURRENT APPLICATION NUMBER: US/09/598,982C
PRIOR FILING DATE: 2000-06-21
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 39
LENGTH: 249
TYPE: PRP
ORGANISM: Homo sapiens
US-09-598-982C-39

Query Match 99.6%; Score 1390; DB 1; Length 249;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 248; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Db 1 LEKRIVGGQEARSRKMPQVSLRVHGRPYMWHFCCGSLIHPQWVLTAAHCVGPDVXDIAL 60
Db 61 RVQLREOHLYYQDQLLPVSRRIIVHPQFYTAQIGAAIALLEBEPRVYSSHHVTVLPPAS 120
Db 121 ETPPPGMPQWVTGWDVNDRLPPFPPLKQVVPIMENHI CDAKYHLGAYTGDDVRIYR 180
Db 181 DMWLCAGNTRRSDSCGDSGGPLVCKVNGTWTQAGVSWEGCAQPNRPGIYTRVYIYLDW 240
Qy 241 IHHYVKKP 249
Db 241 IHHYVKKP 249

RESULT 3
US-09-598-982C-9
Sequence 9, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506.104
CURRENT APPLICATION NUMBER: US/09/598,982C
PRIOR FILING DATE: 2000-06-21
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 9
LENGTH: 249
TYPE: PRP
ORGANISM: Homo sapiens
US-09-598-982C-9

Query Match 99.6%; Score 1389; DB 1; Length 249;  
 Best Local Similarity 99.6%; Pred. No. 0;  
 Matches 248; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 LEKRIVGGQEARSRKMPQVSLRVHGPYMMHFCGSSLIHPOWVLTAAHCVGPDKDLAAL 60  
 DB 1 LEKRIVGGQEARSRKMPQVSLRVHGPYMMHFCGSSLIHPOWVLTAAHCVGPDKDLAAL 60  
 OY 61 RVQLREOHLYYQDQLLPSRIIVHPOFYTAQIGADIALLELEBEPKVS SHVHTVTLPPAS 120  
 DB 61 RVQLREOHLYYQDQLLPSRIIVHPOFYTAQIGADIALLELEBEPKVS SHVHTVTLPPAS 120  
 OY 121 ETPPFGMPCWVTGMDVNDERLPPRPPLKQVYVIMENHICDAKXHLGAYTGDDVRIYR 180  
 DB 121 ETPPFGMPCWVTGMDVNDERLPPRPPLKQVYVIMENHICDAKXHLGAYTGDDVRIYR 180  
 OY 181 DDMLCAGNTRRSDSCGDSGGPVLVCKVNGTMDAGVYVSWGEGCAQPNRPGIYTRVYYLDM 240  
 DB 181 DDMLCAGNTRRSDSCGDSGGPVLVCKVNGTMDAGVYVSWGEGCAQPNRPGIYTRVYYLDM 240  
 OY 241 IHNYVPKKP 249  
 DB 241 IHNYVPKKP 249

RESULT 4  
 US-09-598-982C-25  
 ; Sequence 25, Application US/09598982C

; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffitt, Mark  
 ; APPLICANT: Haak-Frendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASERS, ACTIVE SITE MUTANTS THEREOF,  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; PRIORITY FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 25  
 ; LENGTH: 249  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; US-09-598-982C-25

Query Match 99.4%; Score 1386; DB 1; Length 249;  
 Best Local Similarity 99.2%; Pred. No. 0;  
 Matches 247; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 1 LEKRIVGGQEARSRKMPQVSLRVHGPYMMHFCGSSLIHPOWVLTAAHCVGPDKDLAAL 60  
 DB 1 LEKRIVGGQEARSRKMPQVSLRVHGPYMMHFCGSSLIHPOWVLTAAHCVGPDKDLAAL 60  
 OY 61 RVQLREOHLYYQDQLLPSRIIVHPOFYTAQIGADIALLELEBEPKVS SHVHTVTLPPAS 120  
 DB 61 RVQLREOHLYYQDQLLPSRIIVHPOFYTAQIGADIALLELEBEPKVS SHVHTVTLPPAS 120  
 OY 121 ETPPFGMPCWVTGMDVNDERLPPRPPLKQVYVIMENHICDAKXHLGAYTGDDVRIYR 180  
 DB 121 ETPPFGMPCWVTGMDVNDERLPPRPPLKQVYVIMENHICDAKXHLGAYTGDDVRIYR 180  
 OY 181 DDMLCAGNTRRSDSCGDSGGPVLVCKVNGTMDAGVYVSWGEGCAQPNRPGIYTRVYYLDM 240  
 DB 181 DDMLCAGNTRRSDSCGDSGGPVLVCKVNGTMDAGVYVSWGEGCAQPNRPGIYTRVYYLDM 240  
 OY 241 IHNYVPKKP 249  
 DB 241 IHNYVPKKP 249

US-09-598-982C-27  
 ; Sequence 27, Application US/09598982C

; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffitt, Mark  
 ; APPLICANT: Haak-Frendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASERS, ACTIVE SITE MUTANTS THEREOF,  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; PRIORITY FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 27  
 ; LENGTH: 249  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; US-09-598-982C-27

Query Match 99.4%; Score 1386; DB 1; Length 249;  
 Best Local Similarity 99.2%; Pred. No. 0;  
 Matches 247; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 1 LEKRIVGGQEARSRKMPQVSLRVHGPYMMHFCGSSLIHPOWVLTAAHCVGPDKDLAAL 60  
 DB 1 LEKRIVGGQEARSRKMPQVSLRVHGPYMMHFCGSSLIHPOWVLTAAHCVGPDKDLAAL 60  
 OY 61 RVQLREOHLYYQDQLLPSRIIVHPOFYTAQIGADIALLELEBEPKVS SHVHTVTLPPAS 120  
 DB 61 RVQLREOHLYYQDQLLPSRIIVHPOFYTAQIGADIALLELEBEPKVS SHVHTVTLPPAS 120  
 OY 121 ETPPFGMPCWVTGMDVNDERLPPRPPLKQVYVIMENHICDAKXHLGAYTGDDVRIYR 180  
 DB 121 ETPPFGMPCWVTGMDVNDERLPPRPPLKQVYVIMENHICDAKXHLGAYTGDDVRIYR 180  
 OY 181 DDMLCAGNTRRSDSCGDSGGPVLVCKVNGTMDAGVYVSWGEGCAQPNRPGIYTRVYYLDM 240  
 DB 181 DDMLCAGNTRRSDSCGDSGGPVLVCKVNGTMDAGVYVSWGEGCAQPNRPGIYTRVYYLDM 240  
 OY 241 IHNYVPKKP 249  
 DB 241 IHNYVPKKP 249

RESULT 6  
 US-09-598-982C-41  
 ; Sequence 41, Application US/09598982C

; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffitt, Mark  
 ; APPLICANT: Haak-Frendscho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASERS, ACTIVE SITE MUTANTS THEREOF,  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; PRIORITY FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: 09/079,970  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 41  
 ; LENGTH: 249  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; US-09-598-982C-41

Query Match 99.0%; Score 1381; DB 1; Length 249;  
 Best Local Similarity 98.8%; Pred. No. 0;  
 Matches 246; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

OY 1 LEKRIVGGQEARSRKMPQVSLRVHGPYMMHFCGSSLIHPOWVLTAAHCVGPDKDLAAL 60

```

Db      1 LEKRIYGGQBARPSKMPQVSLRVHGPYMMHFCGSSLIHPOWVLTAAHCVGPDVXDIAAL 60
Qy      61 RVQLREOHLYYQDQLLPSRRIIVHPQFYTAQIGAAITALLLEBEPVYKSSHHVHTVTLPPAS 120
Db      61 RVQLREOHLYYQDQLLPSRRIIVHPQFYTAQIGADTALLLEBEPVAVSSHHVHTVTLPPAS 120
Qy      121 ETPPPGMCWVTGMGVDVNDERLPPRPLKQYKVPIMENHI CDAKYHLGAYTGDDVRIYR 180
Db      121 ETPPPGMCWVTGMGVDVNDERLPPRPLKQYKVPIMENHI CDAKYHLGAYTGDDVRIYR 180
Qy      181 DDMLCAGNTRRSDSCGDSGSPLYCKVNGTWMLOAGVYVSWGEGCAQPNRPGIYTRVYTYLDW 240
Db      181 DDMLCAGNTRRSDSCGDSGSPLYCKVNGTWMLOAGVYVSWGEGCAQPNRPGIYTRVYTYLDW 240
Qy      241 IHHYVPKKP 249
Db      241 IHHYVPKKP 249

```

```

RESULT 7
US-09-598-982C-43
; Sequence 43, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendescho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; PRIORITY FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 43
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-598-982C-43

```

```

Query Match      99.0%; Score 1381; DB 1; Length 249;
Best Local Similarity 98.8%; Pred. No. 0;
Matches 246; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy      1 LEKRIYGGQBARPSKMPQVSLRVHGPYMMHFCGSSLIHPOWVLTAAHCVGPDVXDIAAL 60
Db      1 LEKRIYGGQBARPSKMPQVSLRVHGPYMMHFCGSSLIHPOWVLTAAHCVGPDVXDIAAL 60
Qy      61 RVQLREOHLYYQDQLLPSRRIIVHPQFYTAQIGAAITALLLEBEPVYKSSHHVHTVTLPPAS 120
Db      61 RVQLREOHLYYQDQLLPSRRIIVHPQFYTAQIGADTALLLEBEPVAVSSHHVHTVTLPPAS 120
Qy      121 ETPPPGMCWVTGMGVDVNDERLPPRPLKQYKVPIMENHI CDAKYHLGAYTGDDVRIYR 180
Db      121 ETPPPGMCWVTGMGVDVNDERLPPRPLKQYKVPIMENHI CDAKYHLGAYTGDDVRIYR 180
Qy      181 DDMLCAGNTRRSDSCGDSGSPLYCKVNGTWMLOAGVYVSWGEGCAQPNRPGIYTRVYTYLDW 240
Db      181 DDMLCAGNTRRSDSCGDSGSPLYCKVNGTWMLOAGVYVSWGEGCAQPNRPGIYTRVYTYLDW 240
Qy      241 IHHYVPKKP 249
Db      241 IHHYVPKKP 249

```

```

; APPLICANT: Haak-Frendescho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 21
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-598-982C-21

```

```

Query Match      98.9%; Score 1379; DB 1; Length 249;
Best Local Similarity 98.2%; Pred. No. 0;
Matches 247; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      1 LEKRIYGGQBARPSKMPQVSLRVHGPYMMHFCGSSLIHPOWVLTAAHCVGPDVXDIAAL 60
Db      1 LEKRIYGGQBARPSKMPQVSLRVHGPYMMHFCGSSLIHPOWVLTAAHCVGPDVXDIAAL 60
Qy      61 RVQLREOHLYYQDQLLPSRRIIVHPQFYTAQIGAAITALLLEBEPVYKSSHHVHTVTLPPAS 120
Db      61 RVQLREOHLYYQDQLLPSRRIIVHPQFYTAQIGADTALLLEBEPVAVSSHHVHTVTLPPAS 120
Qy      121 ETPPPGMCWVTGMGVDVNDERLPPRPLKQYKVPIMENHI CDAKYHLGAYTGDDVRIYR 180
Db      121 ETPPPGMCWVTGMGVDVNDERLPPRPLKQYKVPIMENHI CDAKYHLGAYTGDDVRIYR 180
Qy      181 DDMLCAGNTRRSDSCGDSGSPLYCKVNGTWMLOAGVYVSWGEGCAQPNRPGIYTRVYTYLDW 240
Db      181 DDMLCAGNTRRSDSCGDSGSPLYCKVNGTWMLOAGVYVSWGEGCAQPNRPGIYTRVYTYLDW 240
Qy      241 IHHYVPKKP 249
Db      241 IHHYVPKKP 249

```

```

RESULT 9
US-09-598-982C-37
; Sequence 37, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendescho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 37
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-598-982C-37

```

```

Query Match      98.5%; Score 1374; DB 1; Length 249;
Best Local Similarity 98.8%; Pred. No. 0;
Matches 246; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      1 LEKRIYGGQBARPSKMPQVSLRVHGPYMMHFCGSSLIHPOWVLTAAHCVGPDVXDIAAL 60
Db      1 LEKRIYGGQBARPSKMPQVSLRVHGPYMMHFCGSSLIHPOWVLTAAHCVGPDVXDIAAL 60
Qy      61 RVQLREOHLYYQDQLLPSRRIIVHPQFYTAQIGAAITALLLEBEPVYKSSHHVHTVTLPPAS 120

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Db 61 RVQLRQHLYYDQDLIPVSRRIIVHPQFYTAQIGADIALLELEBPVNSVSHVHTVTLPPAS 120
Qy 121 ETPRPGMPCWVTGMDVNDVDERLPPRPLKQVYVIMENHICDAXKHGAATGDDVRLVR 180
Db 121 ETPRPGMPCWVTGMDVNDVDERLPPRPLKQVYVIMENHICDAXKHGAATGDDVRLVR 180
Qy 181 DDMLCAGNTRRDS CGGDSGSPVLCVNGTWTLAGVVSWSGEGCAQPNRPGIYTRVYIYLDW 240
Db 181 DDMLCAGNTRRDS CGGDSGSPVLCVNGTWTLAGVVSWSGEGCAQPNRPGIYTRVYIYLDW 240
Qy 241 IHHVYPKKP 249
Db 241 IHHVYPKKP 249

```

```

RESULT 10
US-09-598-982C-11
; Sequence 11, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Maffitt, Mark
; APPLICANT: Niles, Andrew
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASERS, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 11
; LENGTH: 245
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-598-982C-11

```

```

Query Match 98.2%; Score 1370; DB 1; Length 245;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 244; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 5 IYGGQEARPRSKMPQVSLRVHGRPYMMHFCGSLIHPQWVLTAAHCVGPDVKDLAALRVOL 64
Db 1 IYGGQEARPRSKMPQVSLRVHGRPYMMHFCGSLIHPQWVLTAAHCVGPDVKDLAALRVOL 60
Qy 65 RROHLYYDQDLIPVSRRIIVHPQFYTAQIGADIALLELEBPVNSVSHVHTVTLPPAS 124
Db 61 RROHLYYDQDLIPVSRRIIVHPQFYTAQIGADIALLELEBPVNSVSHVHTVTLPPAS 120
Qy 125 PGMPCWVTGMDVNDVDERLPPRPLKQVYVIMENHICDAXKHGAATGDDVRLVR 184
Db 121 PGMPCWVTGMDVNDVDERLPPRPLKQVYVIMENHICDAXKHGAATGDDVRLVR 180
Qy 185 CAGNTRRDS CGGDSGSPVLCVNGTWTLAGVVSWSGEGCAQPNRPGIYTRVYIYLDW 244
Db 181 CAGNTRRDS CGGDSGSPVLCVNGTWTLAGVVSWSGEGCAQPNRPGIYTRVYIYLDW 240
Qy 245 VPKKP 249
Db 241 VPKKP 245

Search completed: August 26, 2005, 12:29:16
Job time : 1.10016 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using sw model
Run on: August 26, 2005, 12:29:12 ; Search time 0.100161 Seconds
(without alignments)

```

```

Title: US-09-598-982C-25
Perfect score: 1397
Sequence: 1 LEKRIVGGQEARPRSKMPQV.....IYTRVYIYLDWIIHHVYPKKP 249

Scoring table:
BLOSUM62
Gapop 10.0, Gapext 0.5

Searched: 10 seqs, 2486 residues

Total number of hits satisfying chosen parameters: 10

Minimum DB seq length: 0
Maximum DB seq length: Inf

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 200 summaries

Database : US09598982C_rev.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

```

Result No.	Score	Query Match	Length	DB ID	Description
1	1397	100.0	249	1 US-09-598-982C-25	Sequence 25, Appl
2	1397	100.0	249	1 US-09-598-982C-27	Sequence 27, Appl
3	1394	99.8	249	1 US-09-598-982C-9	Sequence 9, Appl
4	1392	99.6	249	1 US-09-598-982C-41	Sequence 41, Appl
5	1392	99.6	249	1 US-09-598-982C-43	Sequence 43, Appl
6	1386	99.2	249	1 US-09-598-982C-23	Sequence 23, Appl
7	1384	99.1	249	1 US-09-598-982C-21	Sequence 21, Appl
8	1381	98.9	249	1 US-09-598-982C-39	Sequence 39, Appl
9	1379	98.7	249	1 US-09-598-982C-37	Sequence 37, Appl
10	1375	98.4	245	1 US-09-598-982C-11	Sequence 11, Appl

```

ALIGNMENTS
RESULT 1
US-09-598-982C-25
; Sequence 25, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASERS, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 25
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-598-982C-25

Query Match 100.0%; Score 1397; DB 1; Length 249;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 249; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LEKRIVGGQEARPRSKMPQVSLRVHGRPYMMHFCGSLIHPQWVLTAAHCVGPDVKDLAAL 60

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Db      1 LEKRIYGGQEARPSKMPQVSLRVHGPYMWHFCCGSLIHPQWVLTAAHCVGPVDKDLAAL 60
Qy      61 RVQLRBOHLYYODQLLPVSRITIVHPQFYTAQIGADIALLEBEPYKVS SHHTVTLPPAS 120
Db      61 RVQLRBOHLYYODQLLPVSRITIVHPQFYTAQIGADIALLEBEPYKVS SHHTVTLPPAS 120
Qy      121 ETPPQMPQWVTGMDVNDERLPPRPPLKQVKVPIEMENHICDAKXHLGAYTGDDVRIYR 180
Db      121 ETPPQMPQWVTGMDVNDERLPPRPPLKQVKVPIEMENHICDAKXHLGAYTGDDVRIYR 180
Qy      181 DMWLCAGNTRRDS CGGDAGGPRLVCKVNGTWLQAGVSWGBCAOPNRPGIYTRVYYLDM 240
Db      181 DMWLCAGNTRRDS CGGDAGGPRLVCKVNGTWLQAGVSWGBCAOPNRPGIYTRVYYLDM 240
Qy      241 IHHYVPKKP 249
Db      241 IHHYVPKKP 249

```

```

RESULT 2
US-09-598-982C-27
; Sequence 27, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 27
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-598-982C-27

```

```

Query Match      100.0%; Score 1397; DB 1; Length 249;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 249; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 LEKRIYGGQEARPSKMPQVSLRVHGPYMWHFCCGSLIHPQWVLTAAHCVGPVDKDLAAL 60
Db      1 LEKRIYGGQEARPSKMPQVSLRVHGPYMWHFCCGSLIHPQWVLTAAHCVGPVDKDLAAL 60
Qy      61 RVQLRBOHLYYODQLLPVSRITIVHPQFYTAQIGADIALLEBEPYKVS SHHTVTLPPAS 120
Db      61 RVQLRBOHLYYODQLLPVSRITIVHPQFYTAQIGADIALLEBEPYKVS SHHTVTLPPAS 120
Qy      121 ETPPQMPQWVTGMDVNDERLPPRPPLKQVKVPIEMENHICDAKXHLGAYTGDDVRIYR 180
Db      121 ETPPQMPQWVTGMDVNDERLPPRPPLKQVKVPIEMENHICDAKXHLGAYTGDDVRIYR 180
Qy      181 DMWLCAGNTRRDS CGGDAGGPRLVCKVNGTWLQAGVSWGBCAOPNRPGIYTRVYYLDM 240
Db      181 DMWLCAGNTRRDS CGGDAGGPRLVCKVNGTWLQAGVSWGBCAOPNRPGIYTRVYYLDM 240
Qy      241 IHHYVPKKP 249
Db      241 IHHYVPKKP 249

```

```

; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 9
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-598-982C-9

```

```

Query Match      99.8%; Score 1394; DB 1; Length 249;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 248; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      1 LEKRIYGGQEARPSKMPQVSLRVHGPYMWHFCCGSLIHPQWVLTAAHCVGPVDKDLAAL 60
Db      1 LEKRIYGGQEARPSKMPQVSLRVHGPYMWHFCCGSLIHPQWVLTAAHCVGPVDKDLAAL 60
Qy      61 RVQLRBOHLYYODQLLPVSRITIVHPQFYTAQIGADIALLEBEPYKVS SHHTVTLPPAS 120
Db      61 RVQLRBOHLYYODQLLPVSRITIVHPQFYTAQIGADIALLEBEPYKVS SHHTVTLPPAS 120
Qy      121 ETPPQMPQWVTGMDVNDERLPPRPPLKQVKVPIEMENHICDAKXHLGAYTGDDVRIYR 180
Db      121 ETPPQMPQWVTGMDVNDERLPPRPPLKQVKVPIEMENHICDAKXHLGAYTGDDVRIYR 180
Qy      181 DMWLCAGNTRRDS CGGDAGGPRLVCKVNGTWLQAGVSWGBCAOPNRPGIYTRVYYLDM 240
Db      181 DMWLCAGNTRRDS CGGDAGGPRLVCKVNGTWLQAGVSWGBCAOPNRPGIYTRVYYLDM 240
Qy      241 IHHYVPKKP 249
Db      241 IHHYVPKKP 249

```

```

RESULT 4
US-09-598-982C-41
; Sequence 41, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 41
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-598-982C-41

```



```

Db      61 RVQLREOHLYYQDOLLVPSRIIVHPQFYTAQIGADIALLELEBEFVKSSSHVHTVTLPPAS 120
Oy      121 ETPPPGMPGCVWTGWDVNDNERLPPPPPLKQVKVPIEMENHICDAKYHLGAYTGDDVRIVR 180
        |||||||
Db      121 ETPPPGMPGCVWTGWDVNDNERLPPPPPLKQVKVPIEMENHICDAKYHLGAYTGDDVRIVR 180
Oy      181 DDMLCAGNTRRSDSCGDAGGPIVCKVNGTWMLOAGVSVWBGSCAOPNRPGIYTRVYYLIDW 240
        |||||||
Db      181 DDMLCAGNTRRSDSCGDAGGPIVCKVNGTWMLOAGVSVWBGSCAOPNRPGIYTRVYYLIDW 240
Oy      241 IHHYVPKKP 249
        |||||||
Db      241 IHHYVPKKP 249

```

```

RESULT 5
US-09-598-982C-43
; Sequence 43, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: Patent in version 3.3
; SEQ ID NO: 43
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-598-982C-43

```

```

Query Match      99.6%; Score 1392; DB 1; Length 249;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 248; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Oy      1 LEKRIVGGGEAPRSKMPQVSLRVHGPYMMHFCCGSLIHPQWVLTAAHCVGPDVKDIAL 60
        |||||||
Db      1 LEKRIVGGGEAPRSKMPQVSLRVHGPYMMHFCCGSLIHPQWVLTAAHCVGPDVKDIAL 60
Oy      61 RVQLREOHLYYQDOLLVPSRIIVHPQFYTAQIGADIALLELEBEFVKSSSHVHTVTLPPAS 120
        |||||||
Db      61 RVQLREOHLYYQDOLLVPSRIIVHPQFYTAQIGADIALLELEBEFVKSSSHVHTVTLPPAS 120
Oy      121 ETPPPGMPGCVWTGWDVNDNERLPPPPPLKQVKVPIEMENHICDAKYHLGAYTGDDVRIVR 180
        |||||||
Db      121 ETPPPGMPGCVWTGWDVNDNERLPPPPPLKQVKVPIEMENHICDAKYHLGAYTGDDVRIVR 180
Oy      181 DDMLCAGNTRRSDSCGDAGGPIVCKVNGTWMLOAGVSVWBGSCAOPNRPGIYTRVYYLIDW 240
        |||||||
Db      181 DDMLCAGNTRRSDSCGDAGGPIVCKVNGTWMLOAGVSVWBGSCAOPNRPGIYTRVYYLIDW 240
Oy      241 IHHYVPKKP 249
        |||||||
Db      241 IHHYVPKKP 249

```

```

RESULT 6
US-09-598-982C-23
; Sequence 23, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C

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; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: Patent in version 3.3
; SEQ ID NO: 23
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-598-982C-23

```

```

Query Match      99.2%; Score 1386; DB 1; Length 249;
Best Local Similarity 99.2%; Pred. No. 0;
Matches 247; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Oy      1 LEKRIVGGGEAPRSKMPQVSLRVHGPYMMHFCCGSLIHPQWVLTAAHCVGPDVKDIAL 60
        |||||||
Db      1 LEKRIVGGGEAPRSKMPQVSLRVHGPYMMHFCCGSLIHPQWVLTAAHCVGPDVKDIAL 60
Oy      61 RVQLREOHLYYQDOLLVPSRIIVHPQFYTAQIGADIALLELEBEFVKSSSHVHTVTLPPAS 120
        |||||||
Db      61 RVQLREOHLYYQDOLLVPSRIIVHPQFYTAQIGADIALLELEBEFVKSSSHVHTVTLPPAS 120
Oy      121 ETPPPGMPGCVWTGWDVNDNERLPPPPPLKQVKVPIEMENHICDAKYHLGAYTGDDVRIVR 180
        |||||||
Db      121 ETPPPGMPGCVWTGWDVNDNERLPPPPPLKQVKVPIEMENHICDAKYHLGAYTGDDVRIVR 180
Oy      181 DDMLCAGNTRRSDSCGDAGGPIVCKVNGTWMLOAGVSVWBGSCAOPNRPGIYTRVYYLIDW 240
        |||||||
Db      181 DDMLCAGNTRRSDSCGDAGGPIVCKVNGTWMLOAGVSVWBGSCAOPNRPGIYTRVYYLIDW 240
Oy      241 IHHYVPKKP 249
        |||||||
Db      241 IHHYVPKKP 249

```

```

RESULT 7
US-09-598-982C-21
; Sequence 21, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: Patent in version 3.3
; SEQ ID NO: 21
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-598-982C-21

```

```

Query Match      99.1%; Score 1384; DB 1; Length 249;
Best Local Similarity 99.2%; Pred. No. 0;
Matches 247; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Oy      1 LEKRIVGGGEAPRSKMPQVSLRVHGPYMMHFCCGSLIHPQWVLTAAHCVGPDVKDIAL 60
        |||||||
Db      1 LEKRIVGGGEAPRSKMPQVSLRVHGPYMMHFCCGSLIHPQWVLTAAHCVGPDVKDIAL 60
Oy      61 RVQLREOHLYYQDOLLVPSRIIVHPQFYTAQIGADIALLELEBEFVKSSSHVHTVTLPPAS 120
        |||||||
Db      61 RVQLREOHLYYQDOLLVPSRIIVHPQFYTAQIGADIALLELEBEFVKSSSHVHTVTLPPAS 120
Oy      121 ETPPPGMPGCVWTGWDVNDNERLPPPPPLKQVKVPIEMENHICDAKYHLGAYTGDDVRIVR 180
        |||||||
Db      121 ETPPPGMPGCVWTGWDVNDNERLPPPPPLKQVKVPIEMENHICDAKYHLGAYTGDDVRIVR 180

```



OY 245 VPKKP 249
Db 241 VPKKP 245

Search completed: August 26, 2005, 12:29:16
Job time : 0.100161 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: August 26, 2005, 12:29:12 ; Search time 0.100161 Seconds

(without alignments)
6.180 Million cell updates/sec

Title: US-09-598-982C-27

Perfect score: 1397
Sequence: 1 LEKRIVGGQEARPKRWQVLSRVNHPYTAQIGADIALLEBEPVKVSSHVHTVTLPPAS 249

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 10 seqs, 2486 residues

Total number of hits satisfying chosen parameters: 10

Minimum DB seq length: 0
Maximum DB seq length: inf

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 20 summaries

Database : US09598982C\_rev.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Table with columns: Result No., Score, Query Match Length, DB ID, Description. Contains 10 rows of search results.

ALIGNMENTS

RESULT 1
US-09-598-982C-25
Sequence 25, Application US/09598982C

GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASIS, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506.104
CURRENT APPLICATION NUMBER: US/09/598,982C

CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079,970
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 25
LENGTH: 249
TYPE: PRT
ORGANISM: Homo sapiens
US-09-598-982C-25

Query Match 100.0%; Score 1397; DB 1; Length 249;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 249; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 LEKRIVGGQEARPKRWQVLSRVNHPYTAQIGADIALLEBEPVKVSSHVHTVTLPPAS 120
Db 1 LEKRIVGGQEARPKRWQVLSRVNHPYTAQIGADIALLEBEPVKVSSHVHTVTLPPAS 120
OY 121 ETFRPGMPCWVTGMDVNDERLPPRPLKQVPIIENHICDAKYLGAVTGDDVRIVR 180
Db 121 ETFRPGMPCWVTGMDVNDERLPPRPLKQVPIIENHICDAKYLGAVTGDDVRIVR 180
OY 181 DDMLCAGNTRRSDSCQSDAGBPLVCKVNGTWMQAGVSVWEGCAQPNRPGIYTRVYILDW 240
Db 181 DDMLCAGNTRRSDSCQSDAGBPLVCKVNGTWMQAGVSVWEGCAQPNRPGIYTRVYILDW 240
OY 241 IHHVVPKKP 249
Db 241 IHHVVPKKP 249

RESULT 2
US-09-598-982C-27

Sequence 27, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASIS, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506.104
CURRENT APPLICATION NUMBER: US/09/598,982C
PRIOR APPLICATION NUMBER: 09/079,970
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 27
LENGTH: 249
TYPE: PRT
ORGANISM: Homo sapiens
US-09-598-982C-27

Query Match 100.0%; Score 1397; DB 1; Length 249;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 249; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 LEKRIVGGQEARPKRWQVLSRVNHPYTAQIGADIALLEBEPVKVSSHVHTVTLPPAS 120
Db 1 LEKRIVGGQEARPKRWQVLSRVNHPYTAQIGADIALLEBEPVKVSSHVHTVTLPPAS 120
OY 61 RVDLRBOHLVYQDDLLPVSRIIVHPQYTAQIGADIALLEBEPVKVSSHVHTVTLPPAS 120
Db 61 RVDLRBOHLVYQDDLLPVSRIIVHPQYTAQIGADIALLEBEPVKVSSHVHTVTLPPAS 120
OY 121 ETFRPGMPCWVTGMDVNDERLPPRPLKQVPIIENHICDAKYLGAVTGDDVRIVR 180
Db 121 ETFRPGMPCWVTGMDVNDERLPPRPLKQVPIIENHICDAKYLGAVTGDDVRIVR 180

QY 181 DDMLCAGNTRRDS...
DB 181 DDMLCAGNTRRDS...
QY 241 IHHYVPKKP 249
DB 241 IHHYVPKKP 249

RESULT 3
US-09-598-982C-9
; Sequence 9, Application US/09598982C

GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Mafilit, Mark
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506.104
CURRENT APPLICATION NUMBER: US/09/598,982C
PRIOR FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079,970
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 9
LENGTH: 249
TYPE: PRT
ORGANISM: Homo sapiens
US-09-598-982C-9

Query Match 99.8%; Score 1394; DB 1; Length 249;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 248; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 LEKRIYGGQEARPRSKMPQVSLRVHGRPYMMHFCGSSLHHPQWVLTAAHCVGPDVYKDLAAL 60
DB 1 LEKRIYGGQEARPRSKMPQVSLRVHGRPYMMHFCGSSLHHPQWVLTAAHCVGPDVYKDLAAL 60
QY 61 RYQLREOHLYYQDOLLPVSRRIIVHPQFYTAQIGADIALLEBEPVKNVSSHVHTVTLPPAS 120
DB 61 RYQLREOHLYYQDOLLPVSRRIIVHPQFYTAQIGADIALLEBEPVKNVSSHVHTVTLPPAS 120
QY 121 ETPPGMPCWVTGWDVNDERLPPRPFLKQVKVPIIMENHICDAKXHLGAYTGDVRIYR 180
DB 121 ETPPGMPCWVTGWDVNDERLPPRPFLKQVKVPIIMENHICDAKXHLGAYTGDVRIYR 180
QY 181 DDMLCAGNTRRDS...
DB 181 DDMLCAGNTRRDS...
QY 241 IHHYVPKKP 249
DB 241 IHHYVPKKP 249

; SEQ ID NO 41
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-598-982C-41

Query Match 99.6%; Score 1392; DB 1; Length 249;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 248; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LEKRIYGGQEARPRSKMPQVSLRVHGRPYMMHFCGSSLHHPQWVLTAAHCVGPDVYKDLAAL 60
DB 1 LEKRIYGGQEARPRSKMPQVSLRVHGRPYMMHFCGSSLHHPQWVLTAAHCVGPDVYKDLAAL 60
QY 61 RYQLREOHLYYQDOLLPVSRRIIVHPQFYTAQIGADIALLEBEPVKNVSSHVHTVTLPPAS 120
DB 61 RYQLREOHLYYQDOLLPVSRRIIVHPQFYTAQIGADIALLEBEPVKNVSSHVHTVTLPPAS 120
QY 121 ETPPGMPCWVTGWDVNDERLPPRPFLKQVKVPIIMENHICDAKXHLGAYTGDVRIYR 180
DB 121 ETPPGMPCWVTGWDVNDERLPPRPFLKQVKVPIIMENHICDAKXHLGAYTGDVRIYR 180
QY 181 DDMLCAGNTRRDS...
DB 181 DDMLCAGNTRRDS...
QY 241 IHHYVPKKP 249
DB 241 IHHYVPKKP 249

RESULT 5
US-09-598-982C-43
; Sequence 43, Application US/09598982C

GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Mafilit, Mark
APPLICANT: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506.104
CURRENT APPLICATION NUMBER: US/09/598,982C
PRIOR FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079,970
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 43
LENGTH: 249
TYPE: PRT
ORGANISM: Homo sapiens
US-09-598-982C-43

Query Match 99.6%; Score 1392; DB 1; Length 249;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 248; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LEKRIYGGQEARPRSKMPQVSLRVHGRPYMMHFCGSSLHHPQWVLTAAHCVGPDVYKDLAAL 60
DB 1 LEKRIYGGQEARPRSKMPQVSLRVHGRPYMMHFCGSSLHHPQWVLTAAHCVGPDVYKDLAAL 60
QY 61 RYQLREOHLYYQDOLLPVSRRIIVHPQFYTAQIGADIALLEBEPVKNVSSHVHTVTLPPAS 120
DB 61 RYQLREOHLYYQDOLLPVSRRIIVHPQFYTAQIGADIALLEBEPVKNVSSHVHTVTLPPAS 120
QY 121 ETPPGMPCWVTGWDVNDERLPPRPFLKQVKVPIIMENHICDAKXHLGAYTGDVRIYR 180
DB 121 ETPPGMPCWVTGWDVNDERLPPRPFLKQVKVPIIMENHICDAKXHLGAYTGDVRIYR 180
QY 181 DDMLCAGNTRRDS...
DB 181 DDMLCAGNTRRDS...

OY 241 IHHYVPKKP 249
DB 241 IHHYVPKKP 249

RESULT 6
US-09-598-982C-23
Sequence 23, Application US/09598982C

GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffett, Mark
APPLICANT: Haak-Frendsch, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506.104
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: US/09/598,982C
CURRENT FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 23
LENGTH: 249
TYPE: PRT
ORGANISM: Homo sapiens
US-09-598-982C-23

Query Match 99.2%; Score 1386; DB 1; Length 249;
Best Local Similarity 99.2%; Pred. No. 0;
Matches 247; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 1 LEKRIVGGQEARPKRPMQVSLRVHGPYMMHFCGSSLIHPOWVLTAAHCVGPDVKDIAL 60
DB 1 LEKRIVGGQEARPKRPMQVSLRVHGPYMMHFCGSSLIHPOWVLTAAHCVGPDVKDIAL 60
OY 61 RVQLREQHLYYDQDLPLVSRITVHPOFYTAOIGADIALLEBEPVKSSSHVHTVTLPPAS 120
DB 61 RVQLREQHLYYDQDLPLVSRITVHPOFYTAOIGADIALLEBEPVKSSSHVHTVTLPPAS 120
OY 121 ETPPPGMCWVTGWDVNDRLRPPPLKQVKVPIEMENHICDAKYNHGAAYTGDVRIVR 180
DB 121 ETPPPGMCWVTGWDVNDRLRPPPLKQVKVPIEMENHICDAKYNHGAAYTGDVRIVR 180
OY 181 DDMLCAGNTRRDSGQDAGGPIVCKVNGTWLQAGVSVSGGCAQPNRPGIYTRVYYLIDW 240
DB 181 DDMLCAGNTRRDSGQDAGGPIVCKVNGTWLQAGVSVSGGCAQPNRPGIYTRVYYLIDW 240
OY 241 IHHYVPKKP 249
DB 241 IHHYVPKKP 249

RESULT 7
US-09-598-982C-21
Sequence 21, Application US/09598982C

GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffett, Mark
APPLICANT: Haak-Frendsch, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506.104
CURRENT FILING DATE: US/09/598,982C
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079,970
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 21
LENGTH: 249
TYPE: PRT
ORGANISM: Homo sapiens
US-09-598-982C-21

Query Match 99.1%; Score 1384; DB 1; Length 249;
Best Local Similarity 99.2%; Pred. No. 0;
Matches 247; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 1 LEKRIVGGQEARPKRPMQVSLRVHGPYMMHFCGSSLIHPOWVLTAAHCVGPDVKDIAL 60
DB 1 LEKRIVGGQEARPKRPMQVSLRVHGPYMMHFCGSSLIHPOWVLTAAHCVGPDVKDIAL 60
OY 61 RVQLREQHLYYDQDLPLVSRITVHPOFYTAOIGADIALLEBEPVKSSSHVHTVTLPPAS 120
DB 61 RVQLREQHLYYDQDLPLVSRITVHPOFYTAOIGADIALLEBEPVKSSSHVHTVTLPPAS 120
OY 121 ETPPPGMCWVTGWDVNDRLRPPPLKQVKVPIEMENHICDAKYNHGAAYTGDVRIVR 180
DB 121 ETPPPGMCWVTGWDVNDRLRPPPLKQVKVPIEMENHICDAKYNHGAAYTGDVRIVR 180
OY 181 DDMLCAGNTRRDSGQDAGGPIVCKVNGTWLQAGVSVSGGCAQPNRPGIYTRVYYLIDW 240
DB 181 DDMLCAGNTRRDSGQDAGGPIVCKVNGTWLQAGVSVSGGCAQPNRPGIYTRVYYLIDW 240
OY 241 IHHYVPKKP 249
DB 241 IHHYVPKKP 249

RESULT 8
US-09-598-982C-39
Sequence 39, Application US/09598982C

GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffett, Mark
APPLICANT: Haak-Frendsch, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506.104
CURRENT FILING DATE: US/09/598,982C
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079,970
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 39
LENGTH: 249
TYPE: PRT
ORGANISM: Homo sapiens
US-09-598-982C-39

Query Match 98.9%; Score 1381; DB 1; Length 249;
Best Local Similarity 98.8%; Pred. No. 0;
Matches 246; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

OY 1 LEKRIVGGQEARPKRPMQVSLRVHGPYMMHFCGSSLIHPOWVLTAAHCVGPDVKDIAL 60
DB 1 LEKRIVGGQEARPKRPMQVSLRVHGPYMMHFCGSSLIHPOWVLTAAHCVGPDVKDIAL 60
OY 61 RVQLREQHLYYDQDLPLVSRITVHPOFYTAOIGADIALLEBEPVKSSSHVHTVTLPPAS 120
DB 61 RVQLREQHLYYDQDLPLVSRITVHPOFYTAOIGADIALLEBEPVKSSSHVHTVTLPPAS 120
OY 121 ETPPPGMCWVTGWDVNDRLRPPPLKQVKVPIEMENHICDAKYNHGAAYTGDVRIVR 180
DB 121 ETPPPGMCWVTGWDVNDRLRPPPLKQVKVPIEMENHICDAKYNHGAAYTGDVRIVR 180
OY 181 DDMLCAGNTRRDSGQDAGGPIVCKVNGTWLQAGVSVSGGCAQPNRPGIYTRVYYLIDW 240
DB 181 DDMLCAGNTRRDSGQDAGGPIVCKVNGTWLQAGVSVSGGCAQPNRPGIYTRVYYLIDW 240
OY 241 IHHYVPKKP 249
DB 241 IHHYVPKKP 249

```

RESULT 9
US-09-598-982C-37
; Sequence 37, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Mafelt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 37
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-598-982C-37

```

```

Query Match      98.7%; Score 1379; DB 1; Length 249;
Best Local Similarity 98.8%; Pred. No. 0;
Matches 246; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 LEKRIYGGGEAPRSKMPQVSLRHHGPRYMMHFCGSLIHPQWVLTAAHCVGPDVLDLAL 60
Db 1 LEKRIYGGGEAPRSKMPQVSLRHHGPRYMMHFCGSLIHPQWVLTAAHCVGPDVLDLAL 60
QY 61 RYQLRQHLIYQDQLLPSKRIIVHPQYTAQIGADIALLELEBPVYSSHVHTVTLPPAS 120
Db 61 RYQLRQHLIYQDQLLPSKRIIVHPQYTAQIGADIALLELEBPVYSSHVHTVTLPPAS 120
QY 121 ETRPPGMPKWTGVDNDELRPPRPLKQVYVPMENHICDAKXHLGAYTGDVRIYR 180
Db 121 ETRPPGMPKWTGVDNDELRPPRPLKQVYVPMENHICDAKXHLGAYTGDVRIYR 180
QY 181 DDMLCAGNTRRDSGQSDGSPLYCKVNGTWLQAGVYVSWGCAQPNRPGIYTRVYTLDM 240
Db 181 DDMLCAGNTRRDSGQSDGSPLYCKVNGTWLQAGVYVSWGCAQPNRPGIYTRVYTLDM 240
QY 241 IHHYVPEKP 249
Db 241 IHHYVPEKP 249

```

```

RESULT 10
US-09-598-982C-11
; Sequence 11, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Mafelt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 11
; LENGTH: 245
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-598-982C-11

```

```

Query Match      98.4%; Score 1375; DB 1; Length 245;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 244; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 5 IYGGGEAPRSKMPQVSLRHHGPRYMMHFCGSLIHPQWVLTAAHCVGPDVLDLALRYQL 64
Db 1 IYGGGEAPRSKMPQVSLRHHGPRYMMHFCGSLIHPQWVLTAAHCVGPDVLDLALRYQL 60
QY 65 RYQHLIYQDQLLPSKRIIVHPQYTAQIGADIALLELEBPVYSSHVHTVTLPPASRTEP 124
Db 61 RYQHLIYQDQLLPSKRIIVHPQYTAQIGADIALLELEBPVYSSHVHTVTLPPASRTEP 120
QY 125 PGMPCWTVGWGDVNDDELRPPRPLKQVYVPMENHICDAKXHLGAYTGDVRIYRDM 184
Db 121 PGMPCWTVGWGDVNDDELRPPRPLKQVYVPMENHICDAKXHLGAYTGDVRIYRDM 180
QY 185 CAGNTRRDSGQSDGSPLYCKVNGTWLQAGVYVSWGCAQPNRPGIYTRVYTLDMTHY 244
Db 181 CAGNTRRDSGQSDGSPLYCKVNGTWLQAGVYVSWGCAQPNRPGIYTRVYTLDMTHY 240
QY 245 VPKKP 249
Db 241 VPKKP 245

```

```

Search completed: August 26, 2005, 12:29:16
Job time : 0.100161 secs
GenCore version 5.1.6
Copyright (c) 1993 - 2005 CompuGen Ltd.

```

```

OM protein - protein search, using sw model
Run on: August 26, 2005, 12:29:12 ; Search time 0.100161 Seconds
(without alignments)
6.180 Million cell updates/sec

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```

Title: US-09-598-982C-37
Perfect score: 1394
Sequence: 1 LEKRIYGGGEAPRSKMPQV.....IYTRVYTLDMIHHYVPEKP 249
Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5
Searched: 10 segs, 2486 residues
Total number of hits satisfying chosen parameters: 10
Minimum DB seq length: 0
Maximum DB seq length: inf
Post-Processing: Minimum Match 0%
Maximum Match 100%
Listing first 20 summaries
Database : US09598982C_rev.pep:*

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```

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.
SUMMARIES

```

Result No.	Score	Query Match	Length	ID	Description
1	1394	100.0	249	1	US-09-598-982C-37
2	1388	99.6	249	1	US-09-598-982C-21
3	1385	99.4	249	1	US-09-598-982C-41
4	1385	99.4	249	1	US-09-598-982C-43
5	1382	99.1	249	1	US-09-598-982C-9
6	1380	99.0	249	1	US-09-598-982C-39
7	1379	98.9	249	1	US-09-598-982C-25
8	1379	98.9	249	1	US-09-598-982C-27
9	1374	98.6	249	1	US-09-598-982C-23
10	1363	97.8	245	1	US-09-598-982C-11

ALIGNMENTS

RESULT 1  
 US-09-598-982C-37  
 Sequence 37, Application US/09598982C  
 GENERAL INFORMATION:  
 APPLICANT: Niles, Andrew  
 APPLICANT: Maffett, Mark  
 APPLICANT: Haak-Frendscho, Mary  
 TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,  
 TITLE OF INVENTION: AND METHODS OF MAKING SAME  
 FILE REFERENCE: 34506.104  
 CURRENT FILING DATE: 2000-06-21  
 PRIOR APPLICATION NUMBER: 09/079,970  
 PRIOR FILING DATE: 1998-04-15  
 NUMBER OF SEQ ID NOS: 52  
 SOFTWARE: PatentIn version 3.3  
 SEQ ID NO 37  
 LENGTH: 249  
 TYPE: PRT  
 ORGANISM: Homo sapiens  
 US-09-598-982C-37

Query Match 100.0%; Score 1394; DB 1; Length 249;  
 Best Local Similarity 100.0%; Pred. No. 0;  
 Matches 249; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 LEKRIVGGQEARPKMPOVSLRVHGPYMMHFCGSSLIHPOVLTAAACVGPVDVLDLAL 60  
 |||  
 DB 1 LEKRIVGGQEARPKMPOVSLRVHGPYMMHFCGSSLIHPOVLTAAACVGPVDVLDLAL 60  
 OY 61 RVQLREOHLYYQDOLLPVSRITVHPQFYTAQIGADIALLEBEFVNVSSSHVHTVTLPPAS 120  
 |||  
 DB 61 RVQLREOHLYYQDOLLPVSRITVHPQFYTAQIGADIALLEBEFVNVSSSHVHTVTLPPAS 120  
 OY 121 ETFRPGMPCWVTGMDVNDNERLPPPLKQVKVPIEMNHICDAKXHLGAYTGDVRLVR 180  
 |||  
 DB 121 ETFRPGMPCWVTGMDVNDNERLPPPLKQVKVPIEMNHICDAKXHLGAYTGDVRLVR 180  
 OY 181 DDMLCAGNTRRDSGCGDSGGLVCKVNGTWLQAGVSVWBGCAQPNRPGIYTRVLYYLDW 240  
 |||  
 DB 181 DDMLCAGNTRRDSGCGDSGGLVCKVNGTWLQAGVSVWBGCAQPNRPGIYTRVLYYLDW 240  
 OY 241 IHHYVPPKKP 249  
 |||  
 DB 241 IHHYVPPKKP 249

RESULT 2  
 US-09-598-982C-21  
 Sequence 21, Application US/09598982C  
 GENERAL INFORMATION:  
 APPLICANT: Niles, Andrew  
 APPLICANT: Maffett, Mark  
 APPLICANT: Haak-Frendscho, Mary  
 TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,  
 TITLE OF INVENTION: AND METHODS OF MAKING SAME  
 FILE REFERENCE: 34506.104  
 CURRENT FILING DATE: 2000-06-21  
 PRIOR APPLICATION NUMBER: 09/079,970  
 PRIOR FILING DATE: 1998-04-15  
 NUMBER OF SEQ ID NOS: 52  
 SOFTWARE: PatentIn version 3.3  
 SEQ ID NO 21  
 LENGTH: 249  
 TYPE: PRT  
 ORGANISM: Homo sapiens  
 US-09-598-982C-21

Query Match 99.4%; Score 1388; DB 1; Length 249;  
 Best Local Similarity 99.2%; Pred. No. 0;  
 Matches 248; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

RESULT 3  
 US-09-598-982C-41  
 Sequence 41, Application US/09598982C  
 GENERAL INFORMATION:  
 APPLICANT: Niles, Andrew  
 APPLICANT: Maffett, Mark  
 APPLICANT: Haak-Frendscho, Mary  
 TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,  
 TITLE OF INVENTION: AND METHODS OF MAKING SAME  
 FILE REFERENCE: 34506.104  
 CURRENT FILING DATE: 2000-06-21  
 PRIOR APPLICATION NUMBER: 09/079,970  
 PRIOR FILING DATE: 1998-04-15  
 NUMBER OF SEQ ID NOS: 52  
 SOFTWARE: PatentIn version 3.3  
 SEQ ID NO 41  
 LENGTH: 249  
 TYPE: PRT  
 ORGANISM: Homo sapiens  
 US-09-598-982C-41

OY 1 LEKRIVGGQEARPKMPOVSLRVHGPYMMHFCGSSLIHPOVLTAAACVGPVDVLDLAL 60  
 |||  
 DB 1 LEKRIVGGQEARPKMPOVSLRVHGPYMMHFCGSSLIHPOVLTAAACVGPVDVLDLAL 60  
 OY 61 RVQLREOHLYYQDOLLPVSRITVHPQFYTAQIGADIALLEBEFVNVSSSHVHTVTLPPAS 120  
 |||  
 DB 61 RVQLREOHLYYQDOLLPVSRITVHPQFYTAQIGADIALLEBEFVNVSSSHVHTVTLPPAS 120  
 OY 121 ETFRPGMPCWVTGMDVNDNERLPPPLKQVKVPIEMNHICDAKXHLGAYTGDVRLVR 180  
 |||  
 DB 121 ETFRPGMPCWVTGMDVNDNERLPPPLKQVKVPIEMNHICDAKXHLGAYTGDVRLVR 180  
 OY 181 DDMLCAGNTRRDSGCGDSGGLVCKVNGTWLQAGVSVWBGCAQPNRPGIYTRVLYYLDW 240  
 |||  
 DB 181 DDMLCAGNTRRDSGCGDSGGLVCKVNGTWLQAGVSVWBGCAQPNRPGIYTRVLYYLDW 240  
 OY 241 IHHYVPPKKP 249  
 |||  
 DB 241 IHHYVPPKKP 249

Query Match 99.4%; Score 1385; DB 1; Length 249;  
 Best Local Similarity 99.2%; Pred. No. 0;  
 Matches 247; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```

RESULT 4
US-09-598-982C-43
; Sequence 43, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Friendescho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; PRIOR FILING DATE: 2000-06-21
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 43
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-598-982C-43

```

```

Query Match          99.4%; Score 1385; DB 1; Length 249;
Best Local Similarity 99.2%; Pred. No. 0;
Matches 247; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```

```

US-09-598-982C-9
; Sequence 9, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Friendescho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; PRIOR FILING DATE: 2000-06-21
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 9
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-598-982C-9

```

```

Query Match          99.1%; Score 1382; DB 1; Length 249;
Best Local Similarity 99.2%; Pred. No. 0;
Matches 247; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

```

QY      1 LEKRIVGGGEAPRSKMPQVSLRVHGPRYMHFGGSLIHPOWVLTAAACVGPVDVLDLAL 60
DB      1 LEKRIVGGGEAPRSKMPQVSLRVHGPRYMHFGGSLIHPOWVLTAAACVGPVDVLDLAL 60
QY      61 RVQLREOHLYYQDQLLPVSRITVHPQFYTAQIGADIALLEBEPPVNVSSHVHTVTLPPAS 120
DB      61 RVQLREOHLYYQDQLLPVSRITVHPQFYTAQIGADIALLEBEPPVNVSSHVHTVTLPPAS 120
QY      121 ETPPPGMCWVTGWGDVNDERLPPFPPLKQVKVPIIMENHI CDAKYHLGAYTGDDVRIYR 180
DB      121 ETPPPGMCWVTGWGDVNDERLPPFPPLKQVKVPIIMENHI CDAKYHLGAYTGDDVRIYR 180
QY      181 DDMLCAGNTRRSDSCGDSGGPLVCKVNGTWTLOAGVSVSMEGCAQPNRPGIYTRVLYYLDW 240
DB      181 DDMLCAGNTRRSDSCGDSGGPLVCKVNGTWTLOAGVSVSMEGCAQPNRPGIYTRVLYYLDW 240
QY      241 IHHYVPKKP 249
DB      241 IHHYVPKKP 249

```

```

RESULT 6
US-09-598-982C-39
; Sequence 39, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Friendescho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; PRIOR FILING DATE: 2000-06-21
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 39
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-598-982C-39

```

```

Query Match          99.0%; Score 1380; DB 1; Length 249;
Best Local Similarity 99.2%; Pred. No. 0;
Matches 247; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

```

US-09-598-982C-25
; Sequence 25, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
US-09-598-982C-25

```



```
APPLICANT: Maffett, Mark
; APPLICANT: Haak-Frendascho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598.982C
; PRIOR FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 25
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-25
Query Match 98.9%; Score 1379; DB 1; Length 249;
Best Local Similarity 98.8%; Pred. No. 0;
Matches 246; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1 LEKRVGGQBAARSRKMPQVSLRNVHGPYMMHFCCGSLIHFPQWVLTAAACVGPVDVKDLAAL 60
DB 1 LEKRVGGQBAARSRKMPQVSLRNVHGPYMMHFCCGSLIHFPQWVLTAAACVGPVDVKDLAAL 60
QY 61 RVOAREQHLYYQDQLLVPSRIIVHPPQFYTAQIGADIALLEBEFVNVSSHVTTLPPAS 120
DB 61 RVOAREQHLYYQDQLLVPSRIIVHPPQFYTAQIGADIALLEBEFVNVSSHVTTLPPAS 120
QY 121 ETFRPQMCWTGTGVDVNDRLRPPPLKQVAVPMENHICDAKXHLGAYTGDDVRIYR 180
DB 121 ETFRPQMCWTGTGVDVNDRLRPPPLKQVAVPMENHICDAKXHLGAYTGDDVRIYR 180
QY 121 ETFRPQMCWTGTGVDVNDRLRPPPLKQVAVPMENHICDAKXHLGAYTGDDVRIYR 180
DB 121 ETFRPQMCWTGTGVDVNDRLRPPPLKQVAVPMENHICDAKXHLGAYTGDDVRIYR 180
QY 181 DDMLCAGNTRRDSQQSGGSEGPLVKVNGVTWLDQAVSVSGSCAQDPRNGIYTRVTYILDW 240
DB 181 DDMLCAGNTRRDSQQSGGSEGPLVKVNGVTWLDQAVSVSGSCAQDPRNGIYTRVTYILDW 240
QY 241 IHNYVPPKP 249
DB 241 IHNYVPPKP 249
RESULT 8
US-09-598-982C-27
; Sequence 27, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffett, Mark
; APPLICANT: Haak-Frendascho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598.982C
; PRIOR FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 27
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-27
```

```
Query Match 98.9%; Score 1379; DB 1; Length 249;
Best Local Similarity 98.8%; Pred. No. 0;
Matches 246; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

```
DB 61 RVOAREQHLYYQDQLLVPSRIIVHPPQFYTAQIGADIALLEBEFVNVSSHVTTLPPAS 120
QY 121 ETFRPQMCWTGTGVDVNDRLRPPPLKQVAVPMENHICDAKXHLGAYTGDDVRIYR 180
DB 121 ETFRPQMCWTGTGVDVNDRLRPPPLKQVAVPMENHICDAKXHLGAYTGDDVRIYR 180
QY 181 DDMLCAGNTRRDSQQSGGSEGPLVKVNGVTWLDQAVSVSGSCAQDPRNGIYTRVTYILDW 240
DB 181 DDMLCAGNTRRDSQQSGGSEGPLVKVNGVTWLDQAVSVSGSCAQDPRNGIYTRVTYILDW 240
QY 241 IHNYVPPKP 249
DB 241 IHNYVPPKP 249
```

```
RESULT 9
US-09-598-982C-23
; Sequence 23, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffett, Mark
; APPLICANT: Haak-Frendascho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598.982C
; PRIOR FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 23
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-23
```

```
Query Match 98.6%; Score 1374; DB 1; Length 249;
Best Local Similarity 98.8%; Pred. No. 0;
Matches 246; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
```

CURRENT APPLICATION NUMBER: US/09/598,982C  
 CURRENT FILING DATE: 2000-06-21  
 PRIOR APPLICATION NUMBER: 09/079,970  
 PRIOR FILING DATE: 1998-04-15  
 NUMBER OF SEQ ID NOS: 52  
 SOFTWARE: PatentIn version 3.3  
 SEQ ID NO: 11  
 LENGTH: 245  
 TYPE: PRT  
 ORGANISM: Homo sapiens  
 US-09-598-982C-11

Query Match 97.8%; Score 1363; DB 1; Length 245;  
 Best Local Similarity 99.2%; Pred. No. 0;  
 Matches 243; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 IYGGQEARPRSKMPOVSLRVAHGPYMMHFGGSLIHPQWVLTAAACVGPDKDIAALRYQL 64  
 DB 1 IYGGQEARPRSKMPOVSLRVAHGPYMMHFGGSLIHPQWVLTAAACVGPDKDIAALRYQL 60  
 QY 65 RQOHLYYQDQLPVSRIIVHPQFYTAQIGADIALLELEBPVNVSSHVHTVTLPPASSTFP 124  
 DB 61 RQOHLYYQDQLPVSRIIVHPQFYTAQIGADIALLELEBPVNVSSHVHTVTLPPASSTFP 120  
 QY 125 RGMPCMTMGVDVNDERLPPRPPLKQVVPIMENHICDAKXHLGAYTGDDVRIYRDDML 184  
 DB 121 RGMPCMTMGVDVNDERLPPRPPLKQVVPIMENHICDAKXHLGAYTGDDVRIYRDDML 180  
 QY 185 CAGNTRRDSGCGSDGSPVCKVNGTWLQAGVVSWSGSCAQPNRPGIYTRVTVYLLDMIHXY 244  
 DB 181 CAGNTRRDSGCGSDGSPVCKVNGTWLQAGVVSWSGSCAQPNRPGIYTRVTVYLLDMIHXY 240  
 QY 245 VPKKP 249  
 DB 241 VPKKP 245

Search completed: August 26, 2005, 12:29:17  
 Job time : 1.10016 secs  
 GenCore version 5.1.6  
 Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using sw model  
 Run on: August 26, 2005, 12:29:12 ; Search time 0.100161 Seconds  
 (without alignments)  
 6.180 Million cell updates/sec  
 Title: US-09-598-982C-39  
 Perfect score: 1336  
 Sequence: 1 LEKRIYGGQEARPRSKMPOV.....IYTRVTVYLLDMIHXYPKKP 249  
 Scoring table: BLOSUM62  
 Gapop 10.0 , Gapext 0.5  
 Searched: 10 seqs, 2486 residues  
 Total number of hits satisfying chosen parameters: 10  
 Minimum DB seq length: 0  
 Maximum DB seq length: inf  
 Post-processing: Minimum Match 0%  
 Maximum Match 100%  
 Listing first 200 summaries  
 Database : US09598982C\_rev.pep.\*  
 Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Query Length	DB ID	Description
1	1396	100.0	249	1	US-09-598-982C-39
2	1390	99.6	249	1	US-09-598-982C-23
3	1387	99.4	249	1	US-09-598-982C-41
4	1387	99.4	249	1	US-09-598-982C-43
5	1384	99.1	249	1	US-09-598-982C-9
6	1381	98.9	249	1	US-09-598-982C-25
7	1381	98.9	249	1	US-09-598-982C-27
8	1370	98.9	249	1	US-09-598-982C-37
9	1374	98.4	249	1	US-09-598-982C-21
10	1365	97.8	245	1	US-09-598-982C-11

ALIGNMENTS

RESULT 1  
 US-09-598-982C-39  
 Sequence 39 Application US/09598982C  
 GENERAL INFORMATION:  
 APPLICANT: Niles, Andrew  
 APPLICANT: Maffitt, Mark  
 APPLICANT: Haak-Frendscho, Mary  
 TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASBS, ACTIVE SITE MUTANTS THEREOF,  
 TITLE OF INVENTION: AND METHODS OF MAKING SAME  
 FILE REFERENCE: 34506.104  
 CURRENT APPLICATION NUMBER: US/09/598,982C  
 CURRENT FILING DATE: 2000-06-21  
 PRIOR APPLICATION NUMBER: 09/079,970  
 PRIOR FILING DATE: 1998-04-15  
 NUMBER OF SEQ ID NOS: 52  
 SOFTWARE: PatentIn version 3.3  
 SEQ ID NO: 39  
 LENGTH: 249  
 TYPE: PRT  
 ORGANISM: Homo sapiens  
 US-09-598-982C-39

Query Match 100.0%; Score 1396; DB 1; Length 249;  
 Best Local Similarity 100.0%; Pred. No. 0;  
 Matches 249; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LEKRIYGGQEARPRSKMPOVSLRVAHGPYMMHFGGSLIHPQWVLTAAACVGPDKDIAAL 60  
 DB 1 LEKRIYGGQEARPRSKMPOVSLRVAHGPYMMHFGGSLIHPQWVLTAAACVGPDKDIAAL 60  
 QY 61 RVOLRQOHLYYQDQLPVSRIIVHPQFYTAQIGAAIALLELEBPVNVSSHVHTVTLPPAS 120  
 DB 61 RVOLRQOHLYYQDQLPVSRIIVHPQFYTAQIGAAIALLELEBPVNVSSHVHTVTLPPAS 120  
 QY 121 ETRPPGMPGWTGMDVNDERLPPRPPLKQVVPIMENHICDAKXHLGAYTGDDVRIY 180  
 DB 121 ETRPPGMPGWTGMDVNDERLPPRPPLKQVVPIMENHICDAKXHLGAYTGDDVRIY 180  
 QY 181 DDMLCAGNTRRDSGCGSDGSPVCKVNGTWLQAGVVSWSGSCAQPNRPGIYTRVTVYLLDM 240  
 DB 181 DDMLCAGNTRRDSGCGSDGSPVCKVNGTWLQAGVVSWSGSCAQPNRPGIYTRVTVYLLDM 240  
 QY 241 IHHYVPKKP 249  
 DB 241 IHHYVPKKP 249

RESULT 2  
 US-09-598-982C-23  
 Sequence 23 Application US/09598982C  
 GENERAL INFORMATION:  
 APPLICANT: Niles, Andrew

```

; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; PRIORITY FILING DATE: 2000-06-21
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 23
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-23

```

Query Match 99.6%; Score 1390; DB 1; Length 249;  
 Best Local Similarity 99.6%; Pred. No. 0;  
 Matches 248; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

QY 1 LEKRIVGGQBARSKMPOVSLRVHGPRYMMHFCGSSLIHPQWVLTAAHCVPDVKDIAAL 60
  |||||||
DB 1 LEKRIVGGQBARSKMPOVSLRVHGPRYMMHFCGSSLIHPQWVLTAAHCVPDVKDIAAL 60
QY 61 RVQLREQLHYQDQLLPSRRIIVHPQFYTAQIGAIALLELEBPVNVSSHVHTVTLPPAS 120
  |||||||
DB 61 RVQLREQLHYQDQLLPSRRIIVHPQFYTAQIGAIALLELEBPVNVSSHVHTVTLPPAS 120
QY 121 ETFPFGMPCWVTGMDVNDERLPPRPPLKQVKVPIWENHICDAKYLGAATGDDVRIYR 180
  |||||||
DB 121 ETFPFGMPCWVTGMDVNDERLPPRPPLKQVKVPIWENHICDAKYLGAATGDDVRIYR 180
QY 181 DDMLCAGNTRRSDSCGDSGGPLVCKVNGTWLQAGVSWGEGCAQPNRPGIYTRVYYLDM 240
  |||||||
DB 181 DDMLCAGNTRRSDSCGDSGGPLVCKVNGTWLQAGVSWGEGCAQPNRPGIYTRVYYLDM 240
QY 241 IHNYVPPKP 249
  |||||||
DB 241 IHNYVPPKP 249

```

```

RESULT 3
US-09-598-982C-41
; Sequence 41, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; PRIORITY FILING DATE: 2000-06-21
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 41
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-41

```

Query Match 99.4%; Score 1387; DB 1; Length 249;  
 Best Local Similarity 99.2%; Pred. No. 0;  
 Matches 247; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```

QY 1 LEKRIVGGQBARSKMPOVSLRVHGPRYMMHFCGSSLIHPQWVLTAAHCVPDVKDIAAL 60
  |||||||
DB 1 LEKRIVGGQBARSKMPOVSLRVHGPRYMMHFCGSSLIHPQWVLTAAHCVPDVKDIAAL 60
QY 61 RVQLREQLHYQDQLLPSRRIIVHPQFYTAQIGAIALLELEBPVNVSSHVHTVTLPPAS 120
  |||||||

```

```

DB 61 RVQLREQLHYQDQLLPSRRIIVHPQFYTAQIGAIALLELEBPVNVSSHVHTVTLPPAS 120
  |||||||
QY 121 ETFPFGMPCWVTGMDVNDERLPPRPPLKQVKVPIWENHICDAKYLGAATGDDVRIYR 180
  |||||||
DB 121 ETFPFGMPCWVTGMDVNDERLPPRPPLKQVKVPIWENHICDAKYLGAATGDDVRIYR 180
QY 181 DDMLCAGNTRRSDSCGDSGGPLVCKVNGTWLQAGVSWGEGCAQPNRPGIYTRVYYLDM 240
  |||||||
DB 181 DDMLCAGNTRRSDSCGDSGGPLVCKVNGTWLQAGVSWGEGCAQPNRPGIYTRVYYLDM 240
QY 241 IHNYVPPKP 249
  |||||||
DB 241 IHNYVPPKP 249

```

Query Match 99.4%; Score 1387; DB 1; Length 249;  
 Best Local Similarity 99.2%; Pred. No. 0;  
 Matches 247; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```

RESULT 4
US-09-598-982C-43
; Sequence 43, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; PRIORITY FILING DATE: 2000-06-21
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 43
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-43

```

```

RESULT 5
US-09-598-982C-9
; Sequence 9, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104

```

```

QY 1 LEKRIVGGQBARSKMPOVSLRVHGPRYMMHFCGSSLIHPQWVLTAAHCVPDVKDIAAL 60
  |||||||
DB 1 LEKRIVGGQBARSKMPOVSLRVHGPRYMMHFCGSSLIHPQWVLTAAHCVPDVKDIAAL 60
QY 61 RVQLREQLHYQDQLLPSRRIIVHPQFYTAQIGAIALLELEBPVNVSSHVHTVTLPPAS 120
  |||||||
DB 61 RVQLREQLHYQDQLLPSRRIIVHPQFYTAQIGAIALLELEBPVNVSSHVHTVTLPPAS 120
QY 121 ETFPFGMPCWVTGMDVNDERLPPRPPLKQVKVPIWENHICDAKYLGAATGDDVRIYR 180
  |||||||
DB 121 ETFPFGMPCWVTGMDVNDERLPPRPPLKQVKVPIWENHICDAKYLGAATGDDVRIYR 180
QY 181 DDMLCAGNTRRSDSCGDSGGPLVCKVNGTWLQAGVSWGEGCAQPNRPGIYTRVYYLDM 240
  |||||||
DB 181 DDMLCAGNTRRSDSCGDSGGPLVCKVNGTWLQAGVSWGEGCAQPNRPGIYTRVYYLDM 240
QY 241 IHNYVPPKP 249
  |||||||
DB 241 IHNYVPPKP 249

```

```

; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 9
; LENGTH: 249
; TYPE: PRF
; ORGANISM: Homo sapiens
US-09-598-982C-9

```

```

Query Match      99.1%; Score 1384; DB 1; Length 249;
Best Local Similarity 99.2%; Pred. No. 0;
Matches 247; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

```

QY 1 LEKRIYGGQEARPSKMPQVSLRVHNGPYMMHFCGGSLLHPQWVLTAAHCVGPDVXDIAL
DB 1 LEKRIYGGQEARPSKMPQVSLRVHNGPYMMHFCGGSLLHPQWVLTAAHCVGPDVXDIAL 60
QY 61 RVQLREOHLYYODQLLPVSRITIVHPQFYTAQIGALIALLEBEPVNVSSHVHTVTLPPAS
DB 61 RVQLREOHLYYODQLLPVSRITIVHPQFYTAQIGADIALLEBEPVNVSSHVHTVTLPPAS 120
QY 121 ETPPPGMCWVTGWDVNDERLPPFPPLKQVKVPIMENHICDAKYHLGAYTGDDVRIYR
DB 121 ETPPPGMCWVTGWDVNDERLPPFPPLKQVKVPIMENHICDAKYHLGAYTGDDVRIYR 180
QY 181 DDMLCAGNTRRDSGCGDGGPLVCKVNGTWTQAGVSVWBGCAQPNRRGITYRVTYYLDW
DB 181 DDMLCAGNTRRDSGCGDGGPLVCKVNGTWTQAGVSVWBGCAQPNRRGITYRVTYYLDW 240
QY 241 IHHVYPKKP 249
DB 241 IHHVYPKKP 249

RESULT 6
US-09-598-982C-25
; Sequence 25, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 25
; LENGTH: 249
; TYPE: PRF
; ORGANISM: Homo sapiens
US-09-598-982C-25

```

```

Query Match      98.9%; Score 1381; DB 1; Length 249;
Best Local Similarity 98.8%; Pred. No. 0;
Matches 246; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

```

```

QY 1 LEKRIYGGQEARPSKMPQVSLRVHNGPYMMHFCGGSLLHPQWVLTAAHCVGPDVXDIAL
DB 1 LEKRIYGGQEARPSKMPQVSLRVHNGPYMMHFCGGSLLHPQWVLTAAHCVGPDVXDIAL 60
QY 61 RVQLREOHLYYODQLLPVSRITIVHPQFYTAQIGALIALLEBEPVNVSSHVHTVTLPPAS
DB 61 RVQLREOHLYYODQLLPVSRITIVHPQFYTAQIGADIALLEBEPVNVSSHVHTVTLPPAS 120
QY 121 ETPPPGMCWVTGWDVNDERLPPFPPLKQVKVPIMENHICDAKYHLGAYTGDDVRIYR
DB 121 ETPPPGMCWVTGWDVNDERLPPFPPLKQVKVPIMENHICDAKYHLGAYTGDDVRIYR 180

```

```

DB 121 ETPPPGMCWVTGWDVNDERLPPFPPLKQVKVPIMENHICDAKYHLGAYTGDDVRIYR 180
QY 181 DDMLCAGNTRRDSGCGDGGPLVCKVNGTWTQAGVSVWBGCAQPNRRGITYRVTYYLDW 240
DB 181 DDMLCAGNTRRDSGCGDGGPLVCKVNGTWTQAGVSVWBGCAQPNRRGITYRVTYYLDW 240
QY 241 IHHVYPKKP 249
DB 241 IHHVYPKKP 249

```

RESULT 7

```

US-09-598-982C-27
; Sequence 27, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 27
; LENGTH: 249
; TYPE: PRF
; ORGANISM: Homo sapiens
US-09-598-982C-27

```

```

Query Match      98.9%; Score 1381; DB 1; Length 249;
Best Local Similarity 98.8%; Pred. No. 0;
Matches 246; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

```

```

QY 1 LEKRIYGGQEARPSKMPQVSLRVHNGPYMMHFCGGSLLHPQWVLTAAHCVGPDVXDIAL 60
DB 1 LEKRIYGGQEARPSKMPQVSLRVHNGPYMMHFCGGSLLHPQWVLTAAHCVGPDVXDIAL 60
QY 61 RVQLREOHLYYODQLLPVSRITIVHPQFYTAQIGADIALLEBEPVNVSSHVHTVTLPPAS 120
DB 61 RVQLREOHLYYODQLLPVSRITIVHPQFYTAQIGADIALLEBEPVNVSSHVHTVTLPPAS 120
QY 121 ETPPPGMCWVTGWDVNDERLPPFPPLKQVKVPIMENHICDAKYHLGAYTGDDVRIYR 180
DB 121 ETPPPGMCWVTGWDVNDERLPPFPPLKQVKVPIMENHICDAKYHLGAYTGDDVRIYR 180
QY 181 DDMLCAGNTRRDSGCGDGGPLVCKVNGTWTQAGVSVWBGCAQPNRRGITYRVTYYLDW 240
DB 181 DDMLCAGNTRRDSGCGDGGPLVCKVNGTWTQAGVSVWBGCAQPNRRGITYRVTYYLDW 240
QY 241 IHHVYPKKP 249
DB 241 IHHVYPKKP 249

```

RESULT 8

```

US-09-598-982C-37
; Sequence 37, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; NUMBER OF SEQ ID NOS: 52

```

```

; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 37
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-598-982C-37

```

```

Query Match      98.8%; Score 1380; DB 1; Length 249;
Best Local Similarity 99.2%; Pred. No. 0;
Matches 247; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

```

OY 1 LEKRIYVGGGEABRSKMPQVSLRVHGRPYMMHFCGSSLIHPQWVLTAAACVGPVDVLAAL 60
DB 1 LEKRIYVGGGEABRSKMPQVSLRVHGRPYMMHFCGSSLIHPQWVLTAAACVGPVDVLAAL 60
OY 61 RYQLEBQHLYYODQLLPVSRITIVHPQFYTAQIGADIALLEBEPVNVSSHVHTVTLPPAS 120
DB 61 RYQLEBQHLYYODQLLPVSRITIVHPQFYTAQIGADIALLEBEPVNVSSHVHTVTLPPAS 120
OY 121 EFPFGMPGCVTWGVDVNDERLPPFPPLKQVKVIMENHICDAXYHLGAYTGDDVRIYR 180
DB 121 EFPFGMPGCVTWGVDVNDERLPPFPPLKQVKVIMENHICDAXYHLGAYTGDDVRIYR 180
OY 181 DMMLCAGNTRRDSGCGDSGSPVLCVKVNGTWLQAGVYVSWGEGCAQPNRPGIYTRVYIYLDW 240
DB 181 DMMLCAGNTRRDSGCGDSGSPVLCVKVNGTWLQAGVYVSWGEGCAQPNRPGIYTRVYIYLDW 240
OY 241 IHHYVPKKP 249
DB 241 IHHYVPKKP 249

```

```

RESULT 9
US-09-598-982C-21
; Sequence 21, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; PRIORITY FILING DATE: 2000-06-21
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 21
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-598-982C-21

```

```

Query Match      98.4%; Score 1374; DB 1; Length 249;
Best Local Similarity 98.8%; Pred. No. 0;
Matches 246; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

```

```

OY 241 IHHYVPKKP 249
DB 241 IHHYVPKKP 249

```

```

Query Match      97.8%; Score 1365; DB 1; Length 245;
Best Local Similarity 99.2%; Pred. No. 0;
Matches 243; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

```

OY 5 IYGGGEABRSKMPQVSLRVHGRPYMMHFCGSSLIHPQWVLTAAACVGPVDVLAALRYQL 64
DB 1 IYGGGEABRSKMPQVSLRVHGRPYMMHFCGSSLIHPQWVLTAAACVGPVDVLAALRYQL 60
OY 65 REQHLYYODQLLPVSRITIVHPQFYTAQIGADIALLEBEPVNVSSHVHTVTLPPASETFP 124
DB 61 REQHLYYODQLLPVSRITIVHPQFYTAQIGADIALLEBEPVNVSSHVHTVTLPPASETFP 120
OY 125 PGMPCWVTVGWDVNDERLPPFPPLKQVKVIMENHICDAXYHLGAYTGDDVRIYRDM 184
DB 121 PGMPCWVTVGWDVNDERLPPFPPLKQVKVIMENHICDAXYHLGAYTGDDVRIYRDM 180
OY 185 CAGNTRRDSGCGDSGSPVLCVKVNGTWLQAGVYVSWGEGCAQPNRPGIYTRVYIYLDW 244
DB 181 CAGNTRRDSGCGDSGSPVLCVKVNGTWLQAGVYVSWGEGCAQPNRPGIYTRVYIYLDW 240
OY 245 VPKKP 249
DB 241 VPKKP 245

```

```

Search completed: August 26, 2005, 12:29:17
Job time : 0.100161 secs
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
OM protein - protein search, using sw model
Run on: August 26, 2005, 12:29:12 ; Search time 0.100161 Seconds
(without alignments)
6.180 Million cell updates/sec
Title: US-09-598-982C-41
Perfect score: 1398
Sequence: 1 LEKRIYVGGGEABRSKMPQV.....IYTRVYIYLDWIHHYVPKKP 249
Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

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Searched: 10 seqs, 2486 residues  
 Total number of hits satisfying chosen parameters: 10  
 Minimum DB seq length: 0  
 Maximum DB seq length: inf

Post-processing: Minimum Match 0%  
 Maximum Match 100%  
 Listing first 200 summaries

Database: US09598982C\_rev.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Result No.	Score	Query Match	Length DB	ID	Description
1	1398	100.0	249	1	US-09-598-982C-41
2	1398	100.0	249	1	US-09-598-982C-43
3	1392	99.6	249	1	US-09-598-982C-25
4	1392	99.6	249	1	US-09-598-982C-27
5	1389	99.4	249	1	US-09-598-982C-9
6	1387	99.2	249	1	US-09-598-982C-39
7	1385	99.1	249	1	US-09-598-982C-37
8	1381	98.8	249	1	US-09-598-982C-23
9	1379	98.8	249	1	US-09-598-982C-21
10	1370	98.0	245	1	US-09-598-982C-11

ALIGNMENTS

RESULT 1  
 US-09-598-982C-41  
 ; Sequence 41, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffelt, Mark  
 ; APPLICANT: Haak-Frendascho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSASES, ACTIVE SITE MUTANTS THEREOF,  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; PRIORITY FILING DATE: 2000-06-21  
 ; PRIORITY APPLICATION NUMBER: 09/079,970  
 ; PRIOR FILING DATE: 1998-04-15  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 41  
 ; LENGTH: 249  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; US-09-598-982C-41

Query Match 100.0%; Score 1398; DB 1; Length 249;  
 Best Local Similarity 100.0%; Pred. No. 0;  
 Matches 249; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	LEKRIVGGQEARSRKMPQVSLRVHGPYMMHFCGSLIHPQWVLTAAHCVGPDVYDLAAL	60
DB	1	LEKRIVGGQEARSRKMPQVSLRVHGPYMMHFCGSLIHPQWVLTAAHCVGPDVYDLAAL	60
QY	61	RVQLREOHLYYQDDLLPVRITIVHPOFYTAQIGADIALLELEPEPVNVSSHVHTVTLPPAS	120
DB	61	RVQLREOHLYYQDDLLPVRITIVHPOFYTAQIGADIALLELEPEPVNVSSHVHTVTLPPAS	120
QY	121	ETFPFGMPCWVTGMGDVNDERLPPFPKQVPIEMNHTCDAKYHLAGAYTGDVRIYR	180
DB	121	ETFPFGMPCWVTGMGDVNDERLPPFPKQVPIEMNHTCDAKYHLAGAYTGDVRIYR	180

DB	121	ETFPFGMPCWVTGMGDVNDERLPPFPKQVPIEMNHTCDAKYHLAGAYTGDVRIYR	180
QY	181	DDMLCAGNTRRDSGCGDAGGPLVCKVNGTWTLOAGVSWGEGCAQPNRRPGLITRYVTYYLDW	240
DB	181	DDMLCAGNTRRDSGCGDAGGPLVCKVNGTWTLOAGVSWGEGCAQPNRRPGLITRYVTYYLDW	240
QY	241	IHHVYVKKP 249	
DB	241	IHHVYVKKP 249	

RESULT 2

US-09-598-982C-43  
 ; Sequence 43, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffelt, Mark  
 ; APPLICANT: Haak-Frendascho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSASES, ACTIVE SITE MUTANTS THEREOF,  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; PRIORITY FILING DATE: 2000-06-21  
 ; PRIORITY APPLICATION NUMBER: 09/079,970  
 ; NUMBER OF SEQ ID NOS: 52  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 43  
 ; LENGTH: 249  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; US-09-598-982C-43

Query Match 100.0%; Score 1398; DB 1; Length 249;  
 Best Local Similarity 100.0%; Pred. No. 0;  
 Matches 249; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	LEKRIVGGQEARSRKMPQVSLRVHGPYMMHFCGSLIHPQWVLTAAHCVGPDVYDLAAL	60
DB	1	LEKRIVGGQEARSRKMPQVSLRVHGPYMMHFCGSLIHPQWVLTAAHCVGPDVYDLAAL	60
QY	61	RVQLREOHLYYQDDLLPVRITIVHPOFYTAQIGADIALLELEPEPVNVSSHVHTVTLPPAS	120
DB	61	RVQLREOHLYYQDDLLPVRITIVHPOFYTAQIGADIALLELEPEPVNVSSHVHTVTLPPAS	120
QY	121	ETFPFGMPCWVTGMGDVNDERLPPFPKQVPIEMNHTCDAKYHLAGAYTGDVRIYR	180
DB	121	ETFPFGMPCWVTGMGDVNDERLPPFPKQVPIEMNHTCDAKYHLAGAYTGDVRIYR	180
QY	181	DDMLCAGNTRRDSGCGDAGGPLVCKVNGTWTLOAGVSWGEGCAQPNRRPGLITRYVTYYLDW	240
DB	181	DDMLCAGNTRRDSGCGDAGGPLVCKVNGTWTLOAGVSWGEGCAQPNRRPGLITRYVTYYLDW	240
QY	241	IHHVYVKKP 249	
DB	241	IHHVYVKKP 249	

RESULT 3

US-09-598-982C-25  
 ; Sequence 25, Application US/09598982C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Niles, Andrew  
 ; APPLICANT: Maffelt, Mark  
 ; APPLICANT: Haak-Frendascho, Mary  
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPSASES, ACTIVE SITE MUTANTS THEREOF,  
 ; FILE REFERENCE: 34506.104  
 ; CURRENT APPLICATION NUMBER: US/09/598,982C  
 ; PRIORITY FILING DATE: 2000-06-21  
 ; PRIORITY APPLICATION NUMBER: 09/079,970  
 ; NUMBER OF SEQ ID NOS: 52

Query Match 100.0%; Score 1398; DB 1; Length 249;  
 Best Local Similarity 100.0%; Pred. No. 0;  
 Matches 249; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	LEKRIVGGQEARSRKMPQVSLRVHGPYMMHFCGSLIHPQWVLTAAHCVGPDVYDLAAL	60
DB	1	LEKRIVGGQEARSRKMPQVSLRVHGPYMMHFCGSLIHPQWVLTAAHCVGPDVYDLAAL	60
QY	61	RVQLREOHLYYQDDLLPVRITIVHPOFYTAQIGADIALLELEPEPVNVSSHVHTVTLPPAS	120
DB	61	RVQLREOHLYYQDDLLPVRITIVHPOFYTAQIGADIALLELEPEPVNVSSHVHTVTLPPAS	120
QY	121	ETFPFGMPCWVTGMGDVNDERLPPFPKQVPIEMNHTCDAKYHLAGAYTGDVRIYR	180
DB	121	ETFPFGMPCWVTGMGDVNDERLPPFPKQVPIEMNHTCDAKYHLAGAYTGDVRIYR	180
QY	181	DDMLCAGNTRRDSGCGDAGGPLVCKVNGTWTLOAGVSWGEGCAQPNRRPGLITRYVTYYLDW	240
DB	181	DDMLCAGNTRRDSGCGDAGGPLVCKVNGTWTLOAGVSWGEGCAQPNRRPGLITRYVTYYLDW	240
QY	241	IHHVYVKKP 249	
DB	241	IHHVYVKKP 249	

```

; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 25
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-598-982C-25

```

```

Query Match      99.6%; Score 1392; DB 1; Length 249;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 248; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

OY 1 LEKRIYGGQEARPSKMPQVSLRVHGPYWMHFCGSSLIHPOWVLTAAHCVGPDVXDIAL 60
DB 1 LEKRIYGGQEARPSKMPQVSLRVHGPYWMHFCGSSLIHPOWVLTAAHCVGPDVXDIAL 60
OY 61 RVQLREOHLYYQDQLLPVSRITVHPQFYTAQIGADIALLELEBPVNVSSHVHTVTLPPAS 120
DB 61 RVQLREOHLYYQDQLLPVSRITVHPQFYTAQIGADIALLELEBPVNVSSHVHTVTLPPAS 120
OY 121 ETPPFGMPCWVTGWGDVNDERLPPPPPLKQVKVPIIMENHICDAKYLGAAYTGDVRIYR 180
DB 121 ETPPFGMPCWVTGWGDVNDERLPPPPPLKQVKVPIIMENHICDAKYLGAAYTGDVRIYR 180
OY 181 DDMLCAGNTRRDS CGDAGGPLVCKVNGTWLQAGVVSWSGCAQPNRPGIYTRVYYILDW 240
DB 181 DDMLCAGNTRRDS CGDAGGPLVCKVNGTWLQAGVVSWSGCAQPNRPGIYTRVYYILDW 240
OY 241 IHHYVPKKP 249
DB 241 IHHYVPKKP 249

```

```

RESULT 4
US-09-598-982C-27
; Sequence 27, Application US/0958982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 27
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-598-982C-27

```

```

Query Match      99.6%; Score 1392; DB 1; Length 249;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 248; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

OY 1 LEKRIYGGQEARPSKMPQVSLRVHGPYWMHFCGSSLIHPOWVLTAAHCVGPDVXDIAL 60
DB 1 LEKRIYGGQEARPSKMPQVSLRVHGPYWMHFCGSSLIHPOWVLTAAHCVGPDVXDIAL 60
OY 61 RVQLREOHLYYQDQLLPVSRITVHPQFYTAQIGADIALLELEBPVNVSSHVHTVTLPPAS 120
DB 61 RVQLREOHLYYQDQLLPVSRITVHPQFYTAQIGADIALLELEBPVNVSSHVHTVTLPPAS 120
OY 121 ETPPFGMPCWVTGWGDVNDERLPPPPPLKQVKVPIIMENHICDAKYLGAAYTGDVRIYR 180
DB 121 ETPPFGMPCWVTGWGDVNDERLPPPPPLKQVKVPIIMENHICDAKYLGAAYTGDVRIYR 180
OY 181 DDMLCAGNTRRDS CGDAGGPLVCKVNGTWLQAGVVSWSGCAQPNRPGIYTRVYYILDW 240
DB 181 DDMLCAGNTRRDS CGDAGGPLVCKVNGTWLQAGVVSWSGCAQPNRPGIYTRVYYILDW 240

```

```

OY 241 IHHYVPKKP 249
DB 241 IHHYVPKKP 249

```

```

RESULT 5
US-09-598-982C-9
; Sequence 9, Application US/0958982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 9
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-598-982C-9

```

```

Query Match      99.4%; Score 1389; DB 1; Length 249;
Best Local Similarity 99.2%; Pred. No. 0;
Matches 247; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```

```

OY 1 LEKRIYGGQEARPSKMPQVSLRVHGPYWMHFCGSSLIHPOWVLTAAHCVGPDVXDIAL 60
DB 1 LEKRIYGGQEARPSKMPQVSLRVHGPYWMHFCGSSLIHPOWVLTAAHCVGPDVXDIAL 60
OY 61 RVQLREOHLYYQDQLLPVSRITVHPQFYTAQIGADIALLELEBPVNVSSHVHTVTLPPAS 120
DB 61 RVQLREOHLYYQDQLLPVSRITVHPQFYTAQIGADIALLELEBPVNVSSHVHTVTLPPAS 120
OY 121 ETPPFGMPCWVTGWGDVNDERLPPPPPLKQVKVPIIMENHICDAKYLGAAYTGDVRIYR 180
DB 121 ETPPFGMPCWVTGWGDVNDERLPPPPPLKQVKVPIIMENHICDAKYLGAAYTGDVRIYR 180
OY 181 DDMLCAGNTRRDS CGDAGGPLVCKVNGTWLQAGVVSWSGCAQPNRPGIYTRVYYILDW 240
DB 181 DDMLCAGNTRRDS CGDAGGPLVCKVNGTWLQAGVVSWSGCAQPNRPGIYTRVYYILDW 240
OY 241 IHHYVPKKP 249
DB 241 IHHYVPKKP 249

```

```

RESULT 6
US-09-598-982C-39
; Sequence 39, Application US/0958982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 39
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens

```

US-09-598-982C-39

Query Match 99.2%; Score 1387; DB 1; Length 249; Best Local Similarity 99.2%; Pred. No. 0; Matches 247; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

1 LEKRIYGGQEA... 60
1 LEKRIYGGQEA... 60
61 RYQLREOHLY... 120
121 EFRP... 180
181 DM... 240
241 IH... 249

RESULT 7
US-09-598-982C-37
Sequence 37, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF.

Query Match 99.1%; Score 1385; DB 1; Length 249; Best Local Similarity 99.2%; Pred. No. 0; Matches 247; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

US-09-598-982C-23

Query Match 98.8%; Score 1381; DB 1; Length 249; Best Local Similarity 98.8%; Pred. No. 0; Matches 246; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

1 LEKRIYGGQEA... 60
1 LEKRIYGGQEA... 60
61 RYQLREOHLY... 120
121 EFRP... 180
181 DM... 240
241 IH... 249

RESULT 9
US-09-598-982C-21
Sequence 21, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF.



```

OY 1 LERKIVGGGEARSRKMPQVSLRVHGRPYMMHFCGSSLIHPQWVLTAAHCVPDVKDIALAL 60
DB 1 LERKIVGGGEARSRKMPQVSLRVHGRPYMMHFCGSSLIHPQWVLTAAHCVPDVKDIALAL 60
OY 61 RVOLREQHLYYODQLLPVSRITIVHPQFYTAQIGADIALLELEPEPVNVSSTHVTTLPPAS 120
DB 61 RVOLREQHLYYODQLLPVSRITIVHPQFYTAQIGADIALLELEPEPVNVSSTHVTTLPPAS 120
OY 121 ETPFGMPCWVTGWGDVNDERLPPFPPLKQVYKVIEMENHICDAKXHLGAAYTGDVRIIVR 180
DB 121 ETPFGMPCWVTGWGDVNDERLPPFPPLKQVYKVIEMENHICDAKXHLGAAYTGDVRIIVR 180
OY 181 DDMLCAGNTRRSDSCGSDAGPLVCKVNGTWTLOAGVVSMBEGCAQPNRPGIYTRVYIYLDW 240
DB 181 DDMLCAGNTRRSDSCGSDAGPLVCKVNGTWTLOAGVVSMBEGCAQPNRPGIYTRVYIYLDW 240
OY 241 IHHVYPKKP 249
DB 241 IHHVYPKKP 249

```

```

RESULT 10
US-09-598-982C-11
; Sequence 11, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 11
; LENGTH: 245
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-598-982C-11

```

```

Query Match 98.0%; Score 1370; DB 1; Length 245;
Best Local Similarity 99.2%; Pred. No. 0;
Matches 243; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 5 IVGGGEARSRKMPQVSLRVHGRPYMMHFCGSSLIHPQWVLTAAHCVPDVKDIALALRVOL 64
DB 1 IVGGGEARSRKMPQVSLRVHGRPYMMHFCGSSLIHPQWVLTAAHCVPDVKDIALALRVOL 60
OY 65 RBQHLVYDQDLIPVSRITIVHPQFYTAQIGADIALLELEPEPVNVSSTHVTTLPPAS 124
DB 61 RBQHLVYDQDLIPVSRITIVHPQFYTAQIGADIALLELEPEPVNVSSTHVTTLPPAS 120
OY 125 PGMPCWVTGWGDVNDERLPPFPPLKQVYKVIEMENHICDAKXHLGAAYTGDVRIIVR 184
DB 121 PGMPCWVTGWGDVNDERLPPFPPLKQVYKVIEMENHICDAKXHLGAAYTGDVRIIVR 180
OY 185 CAGNTRRSDSCGSDAGPLVCKVNGTWTLOAGVVSMBEGCAQPNRPGIYTRVYIYLDW 244
DB 181 CAGNTRRSDSCGSDAGPLVCKVNGTWTLOAGVVSMBEGCAQPNRPGIYTRVYIYLDW 240
OY 245 VPKKP 249
DB 241 VPKKP 245

```

Search completed: August 26, 2005, 12:29:18  
Job time : 1.10016 secs

GenCore version 5.1.6

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OM protein - protein search, using bw model  
Run on: August 26, 2005, 12:29:12 ; Search time 0.100161 Seconds  
(without alignments)  
6.180 Million cell updates/sec

Title: US-09-598-982C-43  
Perfect score: 1398  
Sequence: 1 LERKIVGGGEARSRKMPQV.....IYTRVYIYLDWIIHHVYPKKP 249

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 10 seqs, 2486 residues

Total number of hits satisfying chosen parameters: 10

Minimum DB seq length: 0  
Maximum DB seq length: Inf

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 200 summaries

Database : US09598982C\_rev.Dep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Result No.	Score	Query Match	Length	DB ID	Description
1	1398	100.0	249	US-09-598-982C-41	Sequence 41, Appl
2	1398	100.0	249	US-09-598-982C-43	Sequence 43, Appl
3	1392	99.6	249	US-09-598-982C-25	Sequence 25, Appl
4	1392	99.6	249	US-09-598-982C-27	Sequence 27, Appl
5	1389	99.4	249	US-09-598-982C-9	Sequence 9, Appl
6	1387	99.2	248	US-09-598-982C-39	Sequence 39, Appl
7	1385	99.1	249	US-09-598-982C-37	Sequence 37, Appl
8	1381	98.8	249	US-09-598-982C-23	Sequence 23, Appl
9	1379	98.6	249	US-09-598-982C-21	Sequence 21, Appl
10	1370	98.0	245	US-09-598-982C-11	Sequence 11, Appl

ALIGNMENTS

```

RESULT 1
US-09-598-982C-41
; Sequence 41, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 41
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens

```

US-09-598-982C-41

Query Match 100.0%; Score 1398; DB 1; Length 249; Best Local Similarity 100.0%; Pred. No. 0; Matches 249; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 LKRIYGGQEA... 60
1 LKRIYGGQEA... 60
1 LKRIYGGQEA... 60
61 RYQLEBQHLY... 120
61 RYQLEBQHLY... 120
121 ETPRPMPCW... 180
121 ETPRPMPCW... 180
181 DMMLCAGNTR... 240
181 DMMLCAGNTR... 240
241 IHHYVPKKP 249
241 IHHYVPKKP 249

RESULT 2
US-09-598-982C-43
; Sequence 43, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; PRIOR FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 43
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-598-982C-43

Query Match 100.0%; Score 1398; DB 1; Length 249; Best Local Similarity 100.0%; Pred. No. 0; Matches 249; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
1 LKRIYGGQEA... 60
1 LKRIYGGQEA... 60
1 LKRIYGGQEA... 60
61 RYQLEBQHLY... 120
61 RYQLEBQHLY... 120
121 ETPRPMPCW... 180
121 ETPRPMPCW... 180
181 DMMLCAGNTR... 240
181 DMMLCAGNTR... 240
241 IHHYVPKKP 249
241 IHHYVPKKP 249

RESULT 3

US-09-598-982C-25
; Sequence 25, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; PRIOR FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 25
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-598-982C-25

Query Match 99.6%; Score 1392; DB 1; Length 249; Best Local Similarity 99.6%; Pred. No. 0; Matches 248; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
1 LKRIYGGQEA... 60
1 LKRIYGGQEA... 60
1 LKRIYGGQEA... 60
61 RYQLEBQHLY... 120
61 RYQLEBQHLY... 120
121 ETPRPMPCW... 180
121 ETPRPMPCW... 180
181 DMMLCAGNTR... 240
181 DMMLCAGNTR... 240
241 IHHYVPKKP 249
241 IHHYVPKKP 249

RESULT 4
US-09-598-982C-27
; Sequence 27, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; PRIOR FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 27
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-598-982C-27

Query Match 99.6%; Score 1392; DB 1; Length 249; Best Local Similarity 99.6%; Pred. No. 0; Matches 248; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
1 LKRIYGGQEA... 60
1 LKRIYGGQEA... 60
1 LKRIYGGQEA... 60
61 RYQLEBQHLY... 120
61 RYQLEBQHLY... 120
121 ETPRPMPCW... 180
121 ETPRPMPCW... 180
181 DMMLCAGNTR... 240
181 DMMLCAGNTR... 240
241 IHHYVPKKP 249
241 IHHYVPKKP 249

```

Qy 1 LEKRIVGGQEARPRSKMPQVSLRVHGPYMMHFCGSSLIHPOWVLTAAHCVGPDVKDIAL 60
Db 1 LEKRIVGGQEARPRSKMPQVSLRVHGPYMMHFCGSSLIHPOWVLTAAHCVGPDVKDIAL 60
Qy 61 RVQLREOHLYYQDOLLPVSRITIVHPQFYTAQIGADIALLELEEPVNVSSHHTVTLPPAS 120
Db 61 RVQLREOHLYYQDOLLPVSRITIVHPQFYTAQIGADIALLELEEPVNVSSHHTVTLPPAS 120
Qy 121 ETPPQMPQWVTGWDVNDERLPPPPPLKQVQVPIIMENHICDAKYHLGAYTGDDVRIVR 180
Db 121 ETPPQMPQWVTGWDVNDERLPPPPPLKQVQVPIIMENHICDAKYHLGAYTGDDVRIVR 180
Qy 181 DDMLCAGNTRRDSGCGDAGGRLVCKVNGTWLQAGVSVWEGCAQPNRRPGIYTRVYYLDM 240
Db 181 DDMLCAGNTRRDSGCGDAGGRLVCKVNGTWLQAGVSVWEGCAQPNRRPGIYTRVYYLDM 240
Qy 241 IHHYVPPKRP 249
Db 241 IHHYVPPKRP 249

```

```

RESULT 5
US-09-598-982C-9
; Sequence 9 Application US/095598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendesch, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPPASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 9
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-598-982C-9

```

```

Query Match 99.4%; Score 1389; DB 1; Length 249;
Best Local Similarity 99.2%; Pred. No. 0;
Matches 247; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```

```

Qy 1 LEKRIVGGQEARPRSKMPQVSLRVHGPYMMHFCGSSLIHPOWVLTAAHCVGPDVKDIAL 60
Db 1 LEKRIVGGQEARPRSKMPQVSLRVHGPYMMHFCGSSLIHPOWVLTAAHCVGPDVKDIAL 60
Qy 61 RVQLREOHLYYQDOLLPVSRITIVHPQFYTAQIGADIALLELEEPVNVSSHHTVTLPPAS 120
Db 61 RVQLREOHLYYQDOLLPVSRITIVHPQFYTAQIGADIALLELEEPVNVSSHHTVTLPPAS 120
Qy 121 ETPPQMPQWVTGWDVNDERLPPPPPLKQVQVPIIMENHICDAKYHLGAYTGDDVRIVR 180
Db 121 ETPPQMPQWVTGWDVNDERLPPPPPLKQVQVPIIMENHICDAKYHLGAYTGDDVRIVR 180
Qy 181 DDMLCAGNTRRDSGCGDAGGRLVCKVNGTWLQAGVSVWEGCAQPNRRPGIYTRVYYLDM 240
Db 181 DDMLCAGNTRRDSGCGDAGGRLVCKVNGTWLQAGVSVWEGCAQPNRRPGIYTRVYYLDM 240
Qy 241 IHHYVPPKRP 249
Db 241 IHHYVPPKRP 249

```

```

; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendesch, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPPASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 39
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-598-982C-39

```

```

Query Match 99.2%; Score 1387; DB 1; Length 249;
Best Local Similarity 99.2%; Pred. No. 0;
Matches 247; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```

```

Qy 1 LEKRIVGGQEARPRSKMPQVSLRVHGPYMMHFCGSSLIHPOWVLTAAHCVGPDVKDIAL 60
Db 1 LEKRIVGGQEARPRSKMPQVSLRVHGPYMMHFCGSSLIHPOWVLTAAHCVGPDVKDIAL 60
Qy 61 RVQLREOHLYYQDOLLPVSRITIVHPQFYTAQIGADIALLELEEPVNVSSHHTVTLPPAS 120
Db 61 RVQLREOHLYYQDOLLPVSRITIVHPQFYTAQIGADIALLELEEPVNVSSHHTVTLPPAS 120
Qy 121 ETPPQMPQWVTGWDVNDERLPPPPPLKQVQVPIIMENHICDAKYHLGAYTGDDVRIVR 180
Db 121 ETPPQMPQWVTGWDVNDERLPPPPPLKQVQVPIIMENHICDAKYHLGAYTGDDVRIVR 180
Qy 181 DDMLCAGNTRRDSGCGDAGGRLVCKVNGTWLQAGVSVWEGCAQPNRRPGIYTRVYYLDM 240
Db 181 DDMLCAGNTRRDSGCGDAGGRLVCKVNGTWLQAGVSVWEGCAQPNRRPGIYTRVYYLDM 240
Qy 241 IHHYVPPKRP 249
Db 241 IHHYVPPKRP 249

```

```

RESULT 7
US-09-598-982C-37
; Sequence 37 Application US/095598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendesch, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPPASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 37
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-598-982C-37

```

```

Query Match 99.1%; Score 1385; DB 1; Length 249;
Best Local Similarity 99.2%; Pred. No. 0;
Matches 247; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```

```

QY 61 RYQLREQHLYYDQDLLPVSRIIVHPQFYTAQIGADIALLELEBPVNVSSHVHTVTLPPAS 120
DB 61 RYQLREQHLYYDQDLLPVSRIIVHPQFYTAQIGADIALLELEBPVNVSSHVHTVTLPPAS 120
QY 121 EFPFGMPCWVTGWGDVNDERLPPFPFLKQVKVPIIMENHICDAKXHLGAYTGDDVRIYR 180
DB 121 EFPFGMPCWVTGWGDVNDERLPPFPFLKQVKVPIIMENHICDAKXHLGAYTGDDVRIYR 180
QY 181 DMMLCAGNTRRDSGCGSDGSPLVCKVNGTMDAGVSVWEGCAQPNRPGIYTRVYYLDM 240
DB 181 DMMLCAGNTRRDSGCGSDGSPLVCKVNGTMDAGVSVWEGCAQPNRPGIYTRVYYLDM 240
QY 241 IHHYVPKKP 249
DB 241 IHHYVPKKP 249

```

```

RESULT 8
US-09-598-982C-23
; Sequence 23, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Friendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 23
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-598-982C-23

```

```

Query Match 98.8%; Score 1381; DB 1; Length 249;
Best Local Similarity 98.8%; Pred. No. 0;
Matches 246; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 LEKRIYGGQEARPSKMPQVSLRVHGRPYMMHFCGSSLHHPQWVLTAAACVGPDDVLDLAL 60
DB 1 LEKRIYGGQEARPSKMPQVSLRVHGRPYMMHFCGSSLHHPQWVLTAAACVGPDDVLDLAL 60
QY 61 RYQLREQHLYYDQDLLPVSRIIVHPQFYTAQIGADIALLELEBPVNVSSHVHTVTLPPAS 120
DB 61 RYQLREQHLYYDQDLLPVSRIIVHPQFYTAQIGADIALLELEBPVNVSSHVHTVTLPPAS 120
QY 121 EFPFGMPCWVTGWGDVNDERLPPFPFLKQVKVPIIMENHICDAKXHLGAYTGDDVRIYR 180
DB 121 EFPFGMPCWVTGWGDVNDERLPPFPFLKQVKVPIIMENHICDAKXHLGAYTGDDVRIYR 180
QY 181 DMMLCAGNTRRDSGCGSDGSPLVCKVNGTMDAGVSVWEGCAQPNRPGIYTRVYYLDM 240
DB 181 DMMLCAGNTRRDSGCGSDGSPLVCKVNGTMDAGVSVWEGCAQPNRPGIYTRVYYLDM 240
QY 241 IHHYVPKKP 249
DB 241 IHHYVPKKP 249

```

```

; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 21
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-598-982C-21

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Query Match 98.6%; Score 1379; DB 1; Length 249;
Best Local Similarity 98.8%; Pred. No. 0;
Matches 246; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

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DB 1 LEKRIYGGQEARPSKMPQVSLRVHGRPYMMHFCGSSLHHPQWVLTAAACVGPDDVLDLAL 60
QY 61 RYQLREQHLYYDQDLLPVSRIIVHPQFYTAQIGADIALLELEBPVNVSSHVHTVTLPPAS 120
DB 61 RYQLREQHLYYDQDLLPVSRIIVHPQFYTAQIGADIALLELEBPVNVSSHVHTVTLPPAS 120
QY 121 EFPFGMPCWVTGWGDVNDERLPPFPFLKQVKVPIIMENHICDAKXHLGAYTGDDVRIYR 180
DB 121 EFPFGMPCWVTGWGDVNDERLPPFPFLKQVKVPIIMENHICDAKXHLGAYTGDDVRIYR 180
QY 181 DMMLCAGNTRRDSGCGSDGSPLVCKVNGTMDAGVSVWEGCAQPNRPGIYTRVYYLDM 240
DB 181 DMMLCAGNTRRDSGCGSDGSPLVCKVNGTMDAGVSVWEGCAQPNRPGIYTRVYYLDM 240
QY 241 IHHYVPKKP 249
DB 241 IHHYVPKKP 249

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RESULT 10
US-09-598-982C-11
; Sequence 11, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Friendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 11
; LENGTH: 245
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-598-982C-11

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DB	181	CAGNTRRDS CCGDSSGPIVCKVNGTWLQAGVVSWGEGCAQPNRPGIYTRVTVYYLDMIHNY	240
QY	245	VPKKP	249
DB	241	VPKKP	245

Search completed: August 26, 2005, 12:29:18  
 Job time : 0.100161 secs

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